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FIGURE 4773B

GTTAGGTCAGAAGGAGTACTGGTGCGTGGGGGCCTTACCCCAGGGTTGAGTATTTTATCTGTAAAATGTTATCTG
CCCTTTGGCTGCATTGGAATTTCAGAGAAGGCTGCAGAGGCCTGGGTTACACAGCCTGAGTCACAACGTGGGAAG
GAATCTCTGCCACGGGAAAGGTGGGCGGAAGCAGCTGGCAGCCTGGGGCGTGCTTCAGGCTCCTCCCTCTAAGGG
GCGCCATGGGAACAGGCTCCGGAGGGAGCCGGCGTCTGAAAGGCCCCCGGGACCTGCTGCAGTGCCAGAGGGGCC
TCTGGAGCAGGCCTGGCTTTTAAATGGGGGGCTGAATTCCAGCTCACACACACCTCAAGTCCAACCTTACTTTCT
TCAGCCAGAATACATTTCTTGTAAAACCTGGCTTGTTGCTTGGCTTTTAAAGATGGTGTATGTTTGTAAAAATAT
TCTTCTGGGCTCAAAAGCTAGCTTGAGGGGGCAGATGCCCCAGGTGTCCCAGCTCCACAGCCCCTGGCAGATCCC
AGACCCCTTGGTGGCAGGTCCCAGAGCCTAGGTGGTAGGAGCTTGATCTTTGTTTCTGCCCTTACCCCTCAGTAG
TGGGGCTGCGAGGTAGTAGACAGGATGCCCAGTTAAGTTTGAATTTCAGATAGAAAATAATTTTAGAATAAATAT
GTTCTATCTAATACATGGGACAGATGTTATTTTTAGAGATAGGATCTTGCTCTGTTGCCCAGGCTGGAGTGTAGT
GGTATGATCATAGCTCACCACAACCTTGAACTCCCAGGCTCAAGCGATCCTCCCGCCTTAACTGCCTGAGTAGCT
GGGACTACAGGCATGCACCACCACGCCCAGCTAATTTTTCTTATTTTTTGTAGAGACAGGGTCTCACTGTGTTGC
CTCACTCGAGCTGCTGACCTCAAGTGATCCTCCCACCTCAGCCTGCCAAAGCACTGGGATTACAGGCATGAGCCA
CCATGCCTGGCCAGGACATATTTGAAATGGGGAGATTTTAAAAATTCTGATGATTAGACTGAATCCTCAGACGTT
CTGGTTTGATTGTTGTGGGTGTAGCCCAGGCATGGGATTTTTTAAAGAGCTGCTCAGGTAATTCCAATTTAATTG
CGTGTCCTACTTGGGTTTTTTGTTTGTTTTTATTGTTTTTGCTAAACCTGGCAACCCTACCGAGTAGGGATTAGC
AGTAACTTATCTGAAATTTAGAGGTGTTTTGGGGGGTGGGGCGAGGGTTTCTGTAGTAGACTCAGATTTTACATGG
CCCTGAGCTGCCCCTTGCGTTCAGTTGGAAGCCACGCAAAATGAACTGAACCAGGAGTGAGCTTCGTGTACATTAT
CTATTAGAAAATGAAGTACCTTCTGGTTCAGCTAGTCCCTGTGCGTTGAGAGGCTTTAAGAAACTTCTAGTAAAA
ATGTTTTTTTCTTTTAGCTTTGAATTGGCCAGAGTTTATCCTAGATTATTTTATTTTAAATTGGTAGAATTCTTT
GCGAACTGTCACAGAGAAATTCCTTTTCATGACTTTATTTCTGACCTATTAAAACATGAACAGGCCAGGCATGGT
GGCTCACGCCTGTAATCCTAGCACTTGGGAGGCAGTGGCAGGCGGATCACTTGAGCTCAGGAGTCCTAAACCAGC
CTGGGCAACATAGTGATACCTTGTCTCTACCAAAAGTT

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FIGURE 4774

MKGCEELLKDVLSVESAGTLPCAPEIPDCVEQGSEVTGPTFADGELIPREPGFFPEDEEEAMTLAPPEGPQELYT
DSPMESTQSLEGSVGSPAEKDGGLGGLFLPEDKSLVHTPSMTTSDLSTHSTTSLISNEEQFEDYGEGDDVDCAPS
SPCPDDETRTNVYSDLGSSVSSSAGQTPRKMRHVYNSELLDVYCSQCCKKINLLNDLEARLKNLKANSPNRKISS
TAFGRQLMHSSNFSSSNGSTEDLFRDSIDSCDNDITEKVSFLEKKVTELENDSLTNGDLKSKLKQENTQLVHRVH
ELEEMVKDQETTAEQALEEEARRHREAYGKLEREKATEVELLNARVQQLEEENTELRTTVTRLKSQTEKLDEERQ
RMSDRLEDTSLRLKDEMDLYKRMMDKLRQNRLEFQKEREATQELIEDLRKELEHLQMYKLDCERPGRGRSASSGL
GEFNARAREVELEHEVKRLKQENYKLRDQNDDLNGQILSLSLYEAKNLFAAQTKAQSLAAEIDTASRDELMEALK
EQEEINFRLRQYMDKIILAILDHNPSILEIKH

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FIGURE 4775

GGCTGATTGGCGCTTCTGCGGCGGATCCTCGGGCGGGCAGCCGGGCCGGCGCGTCACGTGGCCCACGGCGTCCAG
GGCGACCAGCCGCGGGCCGCAGGG**ATG**GACCTTCAGGCCGCCGGGGCCCAGGCGCAGGGGGCCGCGGAGCCGTC
TCGGGGCCCGCCGCTGCCTAGCGCGCGGGGGGCGCCCCCCAGCCCGGAGGCTGGCTTTGCTACAGCTGACCACTC
CAGTCAGGAGAGAGAGACTGAGAAGGCTATGGATCGACTAGCCCGTGGAACACAGAGCATTCCTAATGACAGTCC
TGCCCGGGGTGAGGGCACCCATTCTGAAGAGGAAGGCTTTGCCATGGATGAGGAGGACTCTGATGGAGAACTGAA
TACCTGGGAGCTGTCAGAAGGGACAAACTGTCCACCCAAGGAACAGCCTGGCGATCTTTTTAATGAGGACTGGGA
CTCGGAGTTGAAAGCAGATCAAGGGAATCCATATGATGCTGACGACATCCAGGAGAGCATTTCTCAAGAGCTTAA
ACCTTGGGTGTGCTGTGCCCCACAAGGAGACATGATCTATGACCCCAGCTGGCACCATCCGCCTCCACTGATACC
CTATTATTCCAAGATGGTCTTTGAAACAGGACAGTTTGACGATGCTGAAGAT**TGA**GTGTGGAGCTTTCTGCCTTG
TAGGTGGGCGGGCCTCCACGTCAAGATCTCTTTTCCTGTCTTGGAGGTGAAAAGTCATATCTGAGAAAATGTTTG
CAGTGACCCCTAGTCTGGGGTACACAGACCAGTGTTCCTTATTGACAGTGTTCAATAAGGCCCCGTCATTCTCGC
CAGTCTGTTGTTGTTCTTAATGGGCTCCTCCTTGAAATGTGTGTGTGTTTGTGTCAAGAGGAGTTGTGTTCTTTG
TAAATAAAGGTTAAAAGAG

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FIGURE 4776

MDLQAAGAQAQGAAEPSRGPPLPSARGAPPSPEAGFATADHSSQERETEKAMDRLARGTQSIPNDSPARGEGTHS
EEEGFAMDEEDSDGELNTWELSEGTNCPPKEQPGDLFNEDWDSELKADQGNPYDADDIQESISQELKPWVCCAPQ
GDMIYDPSWHHPPPLIPYYSKMVFETGQFDDAED

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FIGURE 4777

GAGGCGGAGCGGGGAACGAGGCCGTCGGCCATTTTGTGTCTGCTTCCTGTGGGACGTGGTGGTAGCCGTTGGGTT
GGGAAAGTGAGGGATTTTTGGCCTCGTTTCTCCTGCTTCTTTTCTCCTCCCTTTTACTTTGCCGGTAGAACACAG
TTATGGGTCGCAAGAAGAAGAAGCAGCTGAAGCCGTGGTGCTGGTATTGTAATAGAGATTTTGATGATGAGAAGA
TCCTTATTCAGCACCAAAAAGCAAAGCATTTTAAATGCCATATATGTCACAAGAAATTGTATACAGGACCTGGCT
TAGCTATTCATTGCATGCAGGTACATAAAGAAACAATAGATGCCGTACCAAATGCAATACCTGGAAGAACAGACA
TAGAGTTGGAAATATATGGTATGGAAGGTATTCCAGAAAAAGACATGGATGAAAGACGACGACTTCTTGAACAGA
AAACACAAGAAAGTCAAAAAAGAAGCAACAAGATGATTCTGATGAATATGATGATGACGACTCTGCAGCCTCAA
CTTCATTTCAGCCACAGCCTGTTCAACCTCAGCAAGGTTATATTCCTCCAATGGCACAGCCAGGACTGCCACCAG
TACCAGGAGCACCAGGAATGCCTCCAGGCATACCTCCATTAATGCCAGGTGTTCCTCCTCTGATGCCAGGAATGC
CACCAGTTATGCCAGGCATGCCACCTGGATTGCATCATCAGAGAAAATACACCCAGTCATTTTGCGGTGAAAACA
TAATGATGCCAATGGGTGGAATGATGCCACCTGGACCAGGAATACCACCTCTGATGCCTGGAATGCCACCAGGTA
TGCCCCCACCTGTTCCACGTCCTGGAATTCCTCCAATGACTCAAGCACAGGCTGTTTCAGCGCCAGGTATTCTTA
ATAGACCACCTGCACCAACAGCAACTGTACCTGCCCCACAGCCTCCAGTTACTAAGCCTCTTTTCCCCAGTGCTG
GACAGATGGGGACACCTGTCACAAGCTCAAGTACAGCTTCATCCAATTCAGAAAGTCTGTCTGCATCTTCTAAAG
CTCTGTTTCCTAGCACAGCACAAGCTCAGGCAGCTGTCCAAGGACCTGTTGGTACAGATTTCAAACCCTTAAATA
GTACCCCTGCAACAACTACAGAACCCCCAAAGCCTACATTCCCTGCTTATACACAGTCTACAGCTTCAACAACTA
GTACAACAAATAGTACTGCAGCTAAACCAGCGGCTTCAATAACAAGTAAGCCTGCTACACTTACAACAACTAGTG
CAACCAGTAAGTTGATCCATCCAGATGAGGATATATCCCTGGAAGAGAGAAGGGCACAGTTACCTAAGTATCAAC
GTAATCTTCCTCGGCCAGGACAGGCCCCCATCGGTAATCCACCAGTTGGACCAATTGGAGGTATGATGCCACCAC
AGCCAGGCATCCCACAGCAACAAGGAATGAGACCCCCAATGCCACCTCATGGTCAGTATGGTGGTCATCATCAAG
GCATGCCAGGATACCTTCCTGGTGCTATGCCCCCGTATGGGCAGGGACCGCCAATGGTGCCCCCTTACCAGGGTG
GGCCTCCTCGACCTCCGATGGGAATGAGACCTCCTGTAATGTCGCAAGGTGGCCGTTACTGATCTTACTTCATCC
AGTCTAATAGGTTTGGAGATTAAACCTTTTCTCAACTTGTGCTGTTTATATAGCCAAGCTTCCGTCAATAAGGCT
TCATTGTGACTTTAACAAACATTATCTTCCCACATACCAGGAACTATTGGACATTTATTTTACATGGGAAAAATT
ATTTGGAATAATAAAGCAGGAACTTTTCCTGAAGTTGCAATTTATACTGTATGGCTTCTTTTTCATGTTTCATCT
AGGTTTTTAGAAGTGAAGTATAGTAAATTTGGTTCGTTAAATTGTGAAGGCGCTGGAATTACATGAACATACCAC
CCTAGTAAAGGCAAGTTCTGTAAGCTTACATTGCTATTTGTAAAGTTTGCCTTCACAGCATTTCAGATGCTGTTG
GACTTCATGTCCCCAACCTAGCTTGGTGAGGGCTGTAACTGTTTCCAAGTACTTGTACATTGGAAGTCTGAATGT
GTAACAATATTTAATGTATTTAGAGTTCCTCATGTTGCAGGGTTTAAGAAATCTGACCCACCAAGGTCATGTGAC
TTTTCTGTACTGTTAAACTTCATTGTAATAAAATGAGAGAAAAATTTATGCCTTTTTATTCATAACCCAGCTGTG
GACCACTGCCTGAAAGGTTTGTACAGATGCATGCCACAGTAGATGTCCACATAATAAAATTCATAGTTACCAATG
CA

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FIGURE 4778

ATGGCGGCGGCGGCGGTGGTGGAGTTCCAGAGAGCCCAGTCTCTACTCAGCACCGACCGGGAGGCCTCCATCGAC
ATCCTCCACTCCATCGTGAAGCGTGACATTCAGGAAAACGATGAAGAGGCAGTGCAAGTCAAAGAGCAGAGCATC
CTGGAACTGGGATCTCTCCTGGCAAAGACTGGACAAGCTGCAGAGCTTGGAGGACTCCTGAAGTATGTACGACCC
TTCTTGAATTCCATCAGCAAGGCTAAAGCAGCTCGCCTGGTCCGATCTCTTCTTGATCTGTTTCTTGATATGGAA
GCAGCTACAGGGCAGGAGGTCGAGCTGTGTTTAGAGTCCATCGAATGGGCCAAGTCAGAGAAAAGAACTTTCTTA
CGCCAAGCTTTGGAGGCAAGACTGGTGTCTTTGTACTTTGATACCAAGAGGTACCAGGAAGCATTGCATTTGGGT
TCTCAGCTGCTGCGGGAGTTGAAAAAGATGGACGACAAAGCTCTTTTGGTGGAAGTACAGCTTTTAGAAAGCAAA
ACATACCATGCCCTGAGCAACCTGCCGAAAGCCCGAGCTGCCTTAACTTCTGCTCGAACCACAGCAAATGCCATC
TACTGCCCCCCTAAATTGCAGGCCACCTTGGACATGCAGTCGGGTATTATCCATGCAGCAGAAGAGAAGGACTGG
AAAACTGCGTACTCATACTTCTATGAGGCATTTGAGGGTTATGACTCCATCGACAGCCCCAAGGCCATCACATCT
CTGAAGTACATGTTGCTGTGCAAAATCATGCTCAACACCCCAGAAGATGTCCAGGCTTTGGTGAGCGGGAAGCTT
GCACTTCGGTATGCAGGGAGGCAGACAGAAGCATTAAAATGCGTGGCTCAGGCTAGCAAGAACAGATCACTGGCA
GATTTTGAAAAGGCTCTGACAGATTACCGGGCAGAGCTCCGGGATGACCCAATCATCAGCACACACTTGGCCAAG
TTGTATGATAACTTACTAGAACAGAATCTGATCCGAGTCATTGAGCCTTTTTCCAGAGTACAGATTGAACACATA
TCTAGTCTCATCAAACTCTCCAAGGCCGACGTGGAAAGGAAATTATCACAGATGATTCTTGACAAGAAATTTCAT
GGGATTTTGGACCAGGGGGAGGGTGTCCTGATTATTTTCGATGAACCCCCAGTAGATAAAACTTACGAAGCTGCT
CTGGAAACAATTCAGAACATGAGCAAAGTAGTGGATTCCCTCTACAACAAAGCCAAGAAACTGACATAG

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FIGURE 4779

MAAAAVVEFQRAQSLLSTDREASIDILHSIVKRDIQENDEEAVQVKEQSILELGSLLAKTGQAAELGGLLKYVRP
FLNSISKAKAARLVRSLLDLFLDMEAATGQEVELCLESIEWAKSEKRTFLRQALEARLVSLYFDTKRYQEALHLG
SQLLRELKKMDDKALLVEVQLLESKTYHALSNLPKARAALTSARTTANAIYCPPKLQATLDMQSGIIHAAEEKDW
KTAYSYFYEAFEGYDSIDSPKAITSLKYMLLCKIMLNTPEDVQALVSGKLALRYAGRQTEALKCVAQASKNRSLA
DFEKALTDYRAELRDDPIISTHLAKLYDNLLEQNLIRVIEPFSRVQIEHISSLIKLSKADVERKLSQMILDKKFH
GILDQGEGVLIIFDEPPVDKTYEAALETIQNMSKVVDSLYNKAKKLT

FIGURE 4780

GGCAGGCCCGCGCCCGCGCCCGGACTTTGCCATCGGCGGGGCAGTCGCGGGATGCGCCCGGGAGCCACAGCCTGA
GGCCCTCAGGTCTCTGCAGGTGTCGTGGAGGAACCTAGCACCTGCCATCCTCTTCCCCAATTTGCCACTTCCAGC
AGCTTTAGCCCATGAGGAGGATGTGACCGGGACTGAGTCAGGAGCCCTCTGGAAGC**ATG**GAGACTGTGGTGATTG
TTGCCATAGGTGTCCTGGCCACCATCTTTCTGGCTTCGTTTGCAGCCTTGGTGCTGGTTTGCAGGCAGCGCTACT
GCCGGCCGCGAGACCTGCTGCAGCGCTATGATTCTAAGCCCATTGTGGACCTCATTGGTGCCATGGAGACCCAGT
CTGAGCCCTCTGAGTTAGAACTGGACGATGTCGTTATCACCAACCCCCACATTGAGGCCATTCTGGAGAATGAAG
ACTGGATCGAAGATGCCTCGGGTCTCATGTCCCACTGCATTGCCATCTTGAAGATTTGTCACACTCCGACAGAGA
AGCTTGTTGCCATGACAATGGGCTCTGGGGCCAAGATGAAGACTTCAGCCAGTGTCAGCGACATCATTGTGGTGG
CCAAGCGGATCAGCCCCAGGGTGGATGATGTTGTGAAGTCGATGTACCCTCCGTTGGACCCCAAACTCCTGGACG
CACGGACGACTGCCCTGCTCCTGTCTGTCAGTCACCTGGTGCTGGTGACAAGGAATGCCTGCCATCTGACGGGAG
GCCTGGACTGGATTGACCAGTCTCTGTCGGCTGCTGAGGAGCGTTTGGAAGTCCTTCGAGAAGCAGCCCTAGCTT
CTGAGCCAGATAAAGGCCTCCCAGGCCCTGAAGGCTTCCTGCAGGAGCAGTCTGCAATT**TAG**TGCCTACAGGCCA
GCAGCTAGCCATGAAGGCCCCTGCCGCCATCCCTGGATGGCTCAGCTTAGCCTTCTACTTTTTCCTATAGAGTTA
GTTGTTCTCCACGGCTGGAGAGTTCAGCTGTGTGTGCATAGTAAAGCAGGAGATCCCCGTCAGTTTATGCCTCTT
TTGCAGTTGCAAACTGTGGCTGGTGAGTGGCAGTCTAATACTACAGTTAGGGGAGATGCCATTCACTCTCTGCAA
GAGGAGTATTGAAAACTGGTGGACTGTCAGCTTTATTTAGCTCACCTAGTGTTTTCAAGAAAATTGAGCCACCGT
CTAAGAAATCAAGAGGTTTCACATTAAAATTAGAATTTCTGGCCTCTCTCGATCGGTCAGAATGTGTGGCAATTC
TGATCTGCATTTTCAGAAGAGGACAATCAATTGAAACTAAGTAGGGGTTTCTTCTTTTGGCAAGACTTGTACTCT
CTCACCTGGCCTGTTTCATTTATTTGTATTATCTGCCTGGTCCCTGAGGCGTCTGGGTCTCTCCTCTCCCTTGCA
GGTTTGGGTTTGAAGCTGAGGAACTACAAAGTTGATGATTTCTTTTTTATCTTTATGCCTGCAATTTTACCTAGC
TACCACTAGGTGGATAGTAAATTTATACTTATGTTTCCCTAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4781

METVVIVAIGVLATIFLASFAALVLVCRQRYCRPRDLLQRYDSKPIVDLIGAMETQSEPSELELDDVVITNPHIE
AILENEDWIEDASGLMSHCIAILKICHTPTEKLVAMTMGSGAKMKTSASVSDIIVVAKRISPRVDDVVKSMYPPL
DPKLLDARTTALLLSVSHLVLVTRNACHLTGGLDWIDQSLSAAEERLEVLREAALASEPDKGLPGPEGFLQEQSA
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FIGURE 4782

<u>ATG</u>CTGAAGCTCACACCCTTGCCCTCCAAGATGAAGGTTTCTGCAGCGCTTCTGTGCCTGCTGCTCATGGCAGCC
ACTTTCAGCCCTCAGGGACTTGCTCAGCCAGATTCAGTTTCCATTCCAATCACCTGCTGCTTTAACGTGATCAAT
AGGAAAAATTCCTATCCAGAGGCTGGAGAGCTACACAAGAATCACCAACATCCAATGTCCCAAGGAAGCTGTGATC
TTCAAGACCCAACGGGGCAAGGAGGTCTGTGCTGACCCCAAGGAGAGATGGGTCAGGGATTCCATGAAGCATCTG
GACCAAATATTTCAAAATCTGAAGCCA<u>TGA</u>

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FIGURE 4783

MLKLTPLPSKMKVSAALLCLLLMAATFSPQGLAQPDSVSIPITCCFNVINRKIPIQRLESYTRITNIQCPKEAVI
FKTQRGKEVCADPKERWVRDSMKHLDQIFQNLKP

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FIGURE 4784

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CTGGAACCCGGAAGCGGCAGCGCGGCGCGACCCGGCGGGCGGGCTCTGGGCGCGGGAATCCCGGCGGATCCCGGG
CGGGCGGATGACCCCCAGCCCTACCCTTGGTGCCGCCTCCTCCTCTCTCCTTTCTCCTCCGGCAGCCAGCGCGCC
TGTGTCCTCTCTAGGAAGGGGTAGGGGAGGGGCGTCTGGAGAGGACCCCCCGCGAATGCCCACGTGACGTGCAGT
CCCCCTGGGGCTGTTCCGGCCTGCGGGGAACATGGGCGTGCTCAGGGTCGGACTGTGCCCTGGCCTTACCGAGGA
GATGATCCAGCTTCTCAGGAGCCACAGGATCAAGACAGTGGTGGACCTGGTTTCTGCAGACCTGGAAGAGGTAGC
TCAGAAATGTGGCTTGTCTTACAAGGCCCTGGTTGCCCTGAGGCGGGTGCTGCTGGCTCAGTTCTCGGCTTTCCC
CGTGAATGGCGCTGATCTCCACGAGGAACTGAAGACCTCTACTGCCATCCTGTCCACTGGCATTGGCAGTCTTGA
TAAACTGCTTGATGCTGGTCTCTATACTGGAGAAGTGACTGAAATTGTAGGAGGCCCAGGTAGCGGCAAAACTCA
GGTATGTCTCTGTATGGCAGCAAATGTGGCCCATGGCCTGCAGCAAAACGTCCTATATGTAGATTCCAATGGAGG
GCTGACAGCTTCCCGCCTCCTCCAGCTGCTTCAGGCTAAAACCCAGGATGAGGAGGAACAGGCAGAAGCTCTCCG
GAGGATCCAGGTGGTGCATGCATTTGACATCTTCCAGATGCTGGATGTGCTGCAGGAGCTCCGAGGCACTGTGGC
CCAGCAGGTGACTGGTTCTTCAGGAACTGTGAAGGTGGTGGTTGTGGACTCGGTCACTGCGGTGGTTTCCCCACT
TCTGGGAGGTCAGCAGAGGGAAGGCTTGGCCTTGATGATGCAGCTGGCCCGAGAGCTGAAGACCCTGGCCCGGGA
CCTTGGCATGGCAGTGGTGGTGACCAACCACATAACTCGAGACAGGGACAGCGGGAGGCTCAAACCTGCCCTCGG
ACGCTCCTGGAGCTTTGTGCCCAGCACTCGGATTCTCCTGGACACCATCGAGGGAGCAGGAGCATCAGGCGGCCG
GCGCATGGCGTGTCTGGCCAAATCTTCCCGACAGCCAACAGGTTTCCAGGAGATGGTAGACATTGGGACCTGGGG
GACCTCAGAGCAGAGTGCCACATTACAGGGTGATCAGACATGACCTGTGCTGTTGTTTGGGAAACAGGGAAGCAT
TGGGGACCCCTCCCAACTTTTCTTCCCAGTAACGCCTGCTGTTTACTGCCACCTGGCACTGGTGACTACAGACGT
TCTCAGGCTGGCCAGAAGAGACATCTTGGGTTCCTTGGCCTCACTCTCTGTAAGCATATAAACCACAGGCGAAAG
AGGATGCTGCATTGCGAGGACCCAGAAATTCATACTGGTGCCACGTTTCCTTCCCTTATTTCTAACGTGTATGTT
TCTGGTGGAAACCAAGTTCACCCTGGCTGGGAGCATCTCTGATGAGGCATGCTGGCGACTGGATGGATAATCCTG
TGCATCACCATTGTGTCCTGTGCTCCCTCCTAGCGCAGTGGCCAAGCCGGGAAAGCCTCTAACTTGCCTTTGCTG
CTGCTGCCTTTTTTTTCTTTTGTCTCTGCCTTTCCATTTGTTAGATGGGGGCCCACTCTTCCTTAGCTCTGTCTC
TGAGTTACTGGGTGGAAATAAGCTTATAAATGAAATACTCTTCTTCATCTCTGTTTTGCTCTTAAAAATATAAAA
AGGCAATTCCCCGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 4785

MGVLRVGLCPGLTEEMIQLLRSHRIKTVVDLVSADLEEVAQKCGLSYKALVALRRVLLAQFSAFPVNGADLHEEL
KTSTAILSTGIGSLDKLLDAGLYTGEVTEIVGGPGSGKTQVCLCMAANVAHGLQQNVLYVDSNGGLTASRLLQLL
QAKTQDEEEQAEALRRIQVVHAFDIFQMLDVLQELRGTVAQQVTGSSGTVKVVVVDSVTAVVSPLLGGQQREGLA
LMMQLARELKTLARDLGMAVVVTNHITRDRDSGRLKPALGRSWSFVPSTRILLDTIEGAGASGGRRMACLAKSSR
QPTGFQEMVDIGTWGTSEQSATLQGDQT

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FIGURE 4786

CTGGAACCCGGAAGCGGCAGCGCGGCGCGACCCGGCGGGCGGGCTCTGGGCGCGGGAATCCCGGCGGATCCCGGG
CGGGCGGATGACCCCCAGCCCTACCCTTGGTGCCGCCTCCTCCTCTCTCCTTTCTCCTCCGGCAGCCAGCGCGCC
TGTGTCCTCTCTAGGAAGGGGTAGGGGAGGGGCGTCTGGAGAGGACCCCCCGCGAATGCCCACGTGACGTGCAGT
CCCCCTGGGGCTGTTCCGGCCTGCGGGGAAC**ATG**GGCGTGCTCAGGGTCGGACTGTGCCCTGGCCTTACCGAGGA
GATGATCCAGCTTCTCAGGAGCCACAGGATCAAGACAGTGGTGGACCTGGTTTCTGCAGACCTGGAAGAGGTAGC
TCAGAAATGTGGCTTGTCTTACAAGTCT**TGA**TAAACTGCTTGATGCTGGTCTCTATACTGGAGAAGTGACTGAAA
TTGTAGGAGGCCCAGGTAGCGGCAAAACTCAGGTATGTCTCTGTATGGCAGCAAATGTGGCCCATGGCCTGCAGC
AAAACGTCCTATATGTAGATTCCAATGGAGGGCTGACAGCTTCCCGCCTCCTCCAGCTGCTTCAGGCTAAAACCC
AGGATGAGGAGGAACAGGCAGAAGCTCTCCGGAGGATCCAGGTGGTGCATGCATTTGACATCTTCCAGATGCTGG
ATGTGCTGCAGGAGCTCCGAGGCACTGTGGCCCAGCAGGTGACTGGTTCTTCAGGAACTGTGAAGGTGGTGGTTG
TGGACTCGGTCACTGCGGTGGTTTCCCCACTTCTGGGAGGTCAGCAGAGGGAAGGCTTGGCCTTGATGATGCAGC
TGGCCCCGAGAGCTGAAGACCCTGGCCCGGGACCTTGGCATGGCAGTGGTGGTGACCAACCACATAACTCGAGACA
GGGACAGCGGGAGGCTCAAACCTGCCCTCGGACGCTCCTGGAGCTTTGTGCCCAGCACTCGGATTCTCCTGGACA
CCATCGAGGGAGCAGGAGCATCAGGCGGCCGGCGCATGGCGTGTCTGGCCAAATCTTCCCGACAGCCAACAGGTT
TCCAGGAGATGGTAGACATTGGGACCTGGGGGACCTCAGAGCAGAGTGCCACATTACAGGGTGATCAGACATGAC
CTGTGCTGTTGTTTGGGAAACAGGGAAGCATTGGGGACCCCTCCCAACTTTTCTTCCCAGTAACGCCTGCTGTTT
ACTGCCACCTGGCACTGGTGACTACAGACGTTCTCAGGCTGGCCAGAAGAGACATCTTGGGTTCCTTGGCCTCAC
TCTCTGTAAGCATATAAACCACAGGCGAAAGAGGATGCTGCATTGCGAGGACCCAGAAATTCATACTGGTGCCAC
GTTTCCTTCCCTTATTTCTAACGTGTATGTTTCTGGTGGAAACCAAGTTCACCCTGGCTGGGAGCATCTCTGATG
AGGCATGCTGGCGACTGGATGGATAATCCTGTGCATCACCATTGTGTCCTGTGCTCCCTCCTAGCGCAGTGGCCA
AGCCGGGAAAGCCTCTAACTTGCCTTTGCTGCTGCTGCCTTTTTTTTCTTTTGTCTCTGCCTTTCCATTTGTTAG
ATGGGGGCCCACTCTTCCTTAGCTCTGTCTCTGAGTTACTGGGTGGAAATAAGCTTATAAATGAAATACTCTTCT
TCATCTCTGTTTTGCTCTTAAAAATATAAAAAGGCAATTCCCCG

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FIGURE 4787

MGVLRVGLCPGLTEEMIQLLRSHRIKTVVDLVSADLEEVAQKCGLSYKS

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FIGURE 4788

CTGGAACCCGGAAGCGGCAGCGCGGCGCGACCCGGCGGGCGGGCTCTGGGCGCGGGAATCCCGGCGGATCCCGGG
CGGGCGGATGACCCCCAGCCCTACCCTTGGTGCCGCCTCCTCCTCTCTCCTTTCTCCTCCGGCAGCCAGCGCGCC
TGTGTCCTCTCTAGGAAGGGGTAGGGGAGGGGCGTCTGGAGAGGACCCCCCGCGAATGCCCACGTGACGTGCAGT
CCCCCTGGGGCTGTTCCGGCCTGCGGGGAAC**ATG**GCGTGCTCAGGGTCGGACTGTGCCCTGGCCTTACCGAGGA
GATGATCCAGCTTCTCAGGAGCCACAGGATCAAGACAGTGGTGGACCTGGTTTCTGCAGACCTGGAAGAGGTAGC
TCAGAAATGTGGCTTGTCTTACAAGTCT**TGA**TAAACTGCTTGATGCTGGTCTCTATACTGGAGAAGTGACTGAAA
TTGTAGGAGGCCCAGGTAGCGGCAAAACTCAGGCAGAAGCTCTCCGGAGGATCCAGGTGGTGCATGCATTTGACA
TCTTCCAGATGCTGGATGTGCTGCAGGAGCTCCGAGGCACTGTGGCCCAGCAGGTGACTGGTTCTTCAGGAACTG
TGAAGGTGGTGGTTGTGGACTCGGTCACTGCGGTGGTTTCCCCACTTCTGGGAGGTCAGCAGAGGGAAGGCTTGG
CCTTGATGATGCAGCTGGCCCGAGAGCTGAAGACCCTGGCCCGGGACCTTGGCATGGCAGTGGTGGTGACCAACC
ACATAACTCGAGACAGGGACAGCGGGAGGCTCAAACCTGCCCTCGGACGCTCCTGGAGCTTTGTGCCCAGCACTC
GGATTCTCCTGGACACCATCGAGGGAGCAGGAGCATCAGGCGGCCGGCGCATGGCGTGTCTGGCCAAATCTTCCC
GACAGCCAACAGGTTTCCAGGAGATGGTAGACATTGGGACCTGGGGGACCTCAGAGCAGAGTGCCACATTACAGG
GTGATCAGACATGACCTGTGCTGTTGTTTGGGAAACAGGGAAGCATTGGGGACCCCTCCCAACTTTTCTTCCCAG
TAACGCCTGCTGTTTACTGCCACCTGGCACTGGTGACTACAGACGTTCTCAGGCTGGCCAGAAGAGACATCTTGG
GTTCCTTGGCCTCACTCTCTGTAAGCATATAAACCACAGGCGAAAGAGGATGCTGCATTGCGAGGACCCAGAAAT
TCATACTGGTGCCACGTTTCCTTCCCTTATTTCTAACGTGTATGTTTCTGGTGGAAACCAAGTTCACCCTGGCTG
GGAGCATCTCTGATGAGGCATGCTGGCGACTGGATGGATAATCCTGTGCATCACCATTGTGTCCTGTGCTCCCTC
CTAGCGCAGTGGCCAAGCCGGGAAAGCCTCTAACTTGCCTTTGCTGCTGCTGCCTTTTTTTTCTTTTGTCTCTGC
CTTTCCATTTGTTAGATGGGGGCCCACTCTTCCTTAGCTCTGTCTCTGAGTTACTGGGTGGAAATAAGCTTATAA
ATGAAATACTCTTCTTCATCTCTGTTTTGCTCTTAAAAATATAAAAAGGCAATTCCCCG

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FIGURE 4789

MGVLRVGLCPGLTEEMIQLLRSHRIKTVVDLVSADLEEVAQKCGLSYKS

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FIGURE 4790

CTGGAACCCGGAAGCGGCAGCGCGGCGCGACCCGGCGGGCGGGCTCTGGGCGCGGGAATCCCGGCGGATCCCGGG
CGGGCGGATGACCCCCAGCCCTACCCTTGGTGCCGCCTCCTCCTCTCTCCTTTCTCCTCCGGCAGCCAGCGCGCC
TGTGTCCTCTCTAGGAAGGGGTAGGGGAGGGGCGTCTGGAGAGGACCCCCCGCGAATGCCCACGTGACGTGCAGT
CCCCCTGGGGCTGTTCCGGCCTGCGGGGAAC**ATG**GGCGTGCTCAGGGTCGGACTGTGCCCTGGCCTTACCGAGGA
GATGATCCAGCTTCTCAGGAGCCACAGGATCAAGACAGTGGTGGACCTGGTTTCTGCAGACCTGGAAGAGGTAGC
TCAGAAATGTGGCTTGTCTTACAAGGCAGAAGCTCTCCGGAGGATCCAGGTGGTGCATGCATTTGACATCTTCCA
GATGCTGGATGTGCTGCAGGAGCTCCGAGGCACTGTGGCCCAGCAGGTGACTGGTTCTTCAGGAACTGTGAAGGT
GGTGGTTGTGGACTCGGTCACTGCGGTGGTTTCCCCACTTCTGGGAGGTCAGCAGAGGGAAGGCTTGGCCTTGAT
GATGCAGCTGGCCCGAGAGCTGAAGACCCTGGCCCGGGACCTTGGCATGGCAGTGGTGGTGACCAACCACATAAC
TCGAGACAGGGACAGCGGGAGGCTCAAACCTGCCCTCGGACGCTCCTGGAGCTTTGTGCCCAGCACTCGGATTCT
CCTGGACACCATCGAGGGAGCAGGAGCATCAGGCGGCCGGCGCATGGCGTGTCTGGCCAAATCTTCCCGACAGCC
AACAGGTTTCCAGGAGATGGTAGACATTGGGACCTGGGGGACCTCAGAGCAGAGTGCCACATTACAGGGTGATCA
GACA**TGA**CCTGTGCTGTTGTTTGGGAAACAGGGAAGCATTGGGGACCCCTCCCAACTTTTCTTCCCAGTAACGCC
TGCTGTTTACTGCCACCTGGCACTGGTGACTACAGACGTTCTCAGGCTGGCCAGAAGAGACATCTTGGGTTCCTT
GGCCTCACTCTCTGTAAGCATATAAACCACAGGCGAAAGAGGATGCTGCATTGCGAGGACCCAGAAATTCATACT
GGTGCCACGTTTCCTTCCCTTATTTCTAACGTGTATGTTTCTGGTGGAAACCAAGTTCACCCTGGCTGGGAGCAT
CTCTGATGAGGCATGCTGGCGACTGGATGGATAATCCTGTGCATCACCATTGTGTCCTGTGCTCCCTCCTAGCGC
AGTGGCCAAGCCGGGAAAGCCTCTAACTTGCCTTTGCTGCTGCTGCCTTTTTTTTCTTTTGTCTCTGCCTTTCCA
TTTGTTAGATGGGGGCCCACTCTTCCTTAGCTCTGTCTCTGAGTTACTGGGTGGAAATAAGCTTATAAATGAAAT
ACTCTTCTTCATCTCTGTTTTGCTCTTAAAAATATAAAAAGGCAATTCCCCG

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FIGURE 4791

MGVLRVGLCPGLTEEMIQLLRSHRIKTVVDLVSADLEEVAQKCGLSYKAEALRRIQVVHAFDIFQMLDVLQELRG
TVAQQVTGSSGTVKVVVVDSVTAVVSPLLGGQQREGLALMMQLARELKTLARDLGMAVVVTNHITRDRDSGRLKP
ALGRSWSFVPSTRILLDTIEGAGASGGRRMACLAKSSRQPTGFQEMVDIGTWGTSEQSATLQGDQT

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FIGURE 4792

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GTGGGGACGCAGGATGGCGGCAGCAGTGGCGGACGAGGCGGTGGCGCGCGATGTGCAGCGGTTGCTAGTGCAGTT
CCAGGATGAGGGCGGGCAGCTGCTGGGTTCCCCGTTCGACGTGCCCGTGGACATCACCCCGGACAGGCTGCAGCT
CGTGTGCAACGCGCTACTGGCCCAGGAGGATCCCCTGCCACTGGCTTTCTTTGTCCACGATGCTGAGATCGTCTC
CTCACTGGGGAAGACGTTGGAGTCCCAGGCAGTGGAGACAGAGAAGGTCCTAGACATCATCTACCAGCCACAGGC
TATCTTCAGAGTCCGGGCTGTGACTCGCTGCACCAGCTCCTTGGAGGGTCACAGTGAGGCAGTCATTTCTGTGGC
CTTCAGCCCTACGGGAAAGTACCTGGCCAGTGGCTCTGGAGACACCACCGTGCGCTTCTGGGATCTCAGCACAGA
GACACCACATTTCACATGCAAGGGACACAGACACTGGGTCCTTAGTATATCCTGGTCTCCAGATGGCAAGAAGCT
GGCCTCAGGCTGCAAGAATGGCCAGATTCTCCTCTGGGACCCAAGCACAGGGAAGCAGGTGGGCAGGACCCTCGC
TGGCCACAGCAAGTGGATCACAGGCCTGAGCTGGGAGCCCCTCCATGCGAACCCTGAGTGCCGCTATGTGGCCAG
CAGCTCCAAGGATGGCAGTGTGCGGATCTGGGACACAACTGCAGGCCGCTGTGAGCGCATCCTCACCGGGCACAC
CCAGTCGGTCACCTGTCTCCGGTGGGGAGGGGACGGGCTTCTCTACTCTGCCTCCCAGGACCGCACCATCAAAGT
CTGGAGAGCTCATGACGGTGTGCTGTGCCGGACTCTGCAAGGCCACGGCCACTGGGTGAACACCATGGCCCTCAG
CACTGACTATGCCCTGCGCACTGGGGCCTTTGAACCTGCTGAGGCCTCAGTTAATCCCCAAGACCTCCAAGGATC
CTTGCAGGAGTTGAAGGAGAGGGCTCTGAGCCGATACAACCTCGTGCGGGGCCAGGGTCCAGAGAGGCTGGTGTC
TGGCTCCGACGACTTCACCTTATTCCTGTGGTCCCCAGCAGAGGACAAAAAGCCTCTCACTCGGATGACAGGACA
CCAAGCTCTCATCAACCAGGTGCTCTTCTCTCCTGACTCCCGCATCGTGGCTAGTGCCTCCTTTGACAAGTCCAT
CAAGCTGTGGGATGGCAGGACGGGCAAGTACCTGGCTTCCCTACGCGGCCACGTGGCTGCCGTGTACCAGATTGC
GTGGTCAGCTGACAGTCGGCTCCTGGTCAGCGGCAGCAGTGACAGCACACTGAAGGTGTGGGATGTGAAGGCCCA
GAAGCTGGCCATGGACCTGCCCGGCCACGCGGATGAGGTATATGCTGTTGACTGGAGTCCAGATGGCCAGAGAGT
GGCAAGTGGTGGGAAGGACAAATGCCTCCGGATATGGAGGAGATGAGACGGCCCGAAGTTCTCTCTGACCCCCAC
CTCGACTCGGCCTCTGCCAGCTGCCTTCCCTGCCAGAGAACAAAGGCTGAGATGGCAGTGCACACACCCTCCCCA
CCAGTGGGGACCTGAGAATGCGTGTGGCCTGCTGTCCTCGATAGACCGGAATGGGGTTTTCCCACAGATCCCCGC
CTGTGGCACACCCCAGAGCCAGAAATCGAAGGTCACAGGAAGTTGTCACTGAACTTGGCCCGTGTCTGCTACTCT
GTACCTTGCTGGTACAGACAGGGGTGGTGGGCAGCCAGGCTCTATGAGTGGGCCCCTAGTGTCAGCTCTGTACAG
GGTCAGATCCCAGGTTCTATGACCAAATAAGTAACTTAAGTTTTGTGTGTTGGGTTCTAATTCCTTGTCCTAGAA
TCCCCATGACTCAATCAAGGACTGTGCTAAATGAGATTGTCCAGCCCCCGCCCTTGCACTGGACTACGCCAAAAC
CACACTGACCAGGCACTTGCCTTCCCTCTCTTCCCCCGTGTTGGTAAGAGAGAGGCCAGTTGTGATAGTGGCCAA
GGAGAATCTAGGGCTGTATTGTTGTCCACTGCAGTAGGCACCGGCCACATGTGACTGCTGGCATGAAATAGAAGT
GCAGTTCCTCCATCGCACTGGGTAAGGCCTCCAGTATTGGACAGCACACAGAAAGGTTTTCATCATCAAGAGAGT
TCTGCTGGTCAGCCCTGCTCCAGGGGATGCCTCTGCCTTCGCATAGCACACTGCTTGAGGCCCTGCCAGGCACCA
AGCACTGCCCTGGGCCCATGGGATAGAGCGGGGAAGGTGATGGCTCTTCCAGAGGATTCCCTCAGATGGGGAGGC
AGCAGTATGAGCTCTGAGCAGAAGTGGGTATTGTTGATACAGAGGAAGTTCTTTGCCACGAGAACTTTCAAGCAG
TGAAAGGAATTCCCATCAGGACTCAGACCCCAGGCCGAGATCTTGCCCTGAATGTACCCTGCCTCTGCTTTCTCC
TGCATCCCATGCTAAGCAGGGTCATGGTCTGAACTACTCAGATTGGATTTCCAAACCATCCTTGTATAAACTGCT
CAGAACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 4793

MAAAVADEAVARDVQRLLVQFQDEGGQLLGSPFDVPVDITPDRLQLVCNALLAQEDPLPLAFFVHDAEIVSSLGK
TLESQAVETEKVLDIIYQPQAIFRVRAVTRCTSSLEGHSEAVISVAFSPTGKYLASGSGDTTVRFWDLSTETPHF
TCKGHRHWVLSISWSPDGKKLASGCKNGQILLWDPSTGKQVGRTLAGHSKWITGLSWEPLHANPECRYVASSSKD
GSVRIWDTTAGRCERILTGHTQSVTCLRWGGDGLLYSASQDRTIKVWRAHDGVLCRTLQGHGHWVNTMALSTDYA
LRTGAFEPAEASVNPQDLQGSLQELKERALSRYNLVRGQGPERLVSGSDDFTLFLWSPAEDKKPLTRMTGHQALI
NQVLFSPDSRIVASASFDKSIKLWDGRTGKYLASLRGHVAAVYQIAWSADSRLLVSGSSDSTLKVWDVKAQKLAM
DLPGHADEVYAVDWSPDGQRVASGGKDKCLRIWRR

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FIGURE 4794A

GTGCAGTGGCACGATCTTGGTTCACCACAATCTCGTCTCGAAGGCTCAGGTGATTCTCTCACCTCAGCCGCCTGA
GTAGCTGGGACCACAGTTTCAGCTGTGAGTTCAACATGGAGGCAAATCAGTGCCCCCTGGTTGTGGAACCATCTT
ACCCAGACCTGGTCATCAATGTAGGAGAAGTGACTCTTGGAGAAGAAAACAGAAAAAAGCTGCAGAAAATTCAGA
GAGACCAAGAGAAGGAGAGAGTTATGCGGGCTGCATGTGCTTTATTAAACTCAGGAGGAGGAGTGATTCGAATGG
CCAAGAAGGTTGAGCATCCCGTGGAGATGGGACTGGATTAGAACAGTCTTTGAGAGAGCTTATTCAGTCTTCAG
ATCTGCAGGCTTTCTTTGAGACCAAGCAACAAGGAAGGTGTTTTTACATTTTTGTTAAATCTTGGAGCAGTGGCC
CTTTCCCTGAAGATCGCTCTGTCAAGCCCCGCCTTTGCAGCCTCAGTTCTTCATTATACCGTAGATCTGAGACCT
CTGTGCGTTCCATGGACTCAAGAGAGGCATTCTGTTTCCTGAAGACCAAAAGGAAGCCAAAAATCTTGGAAGAAG
GACCTTTTCACAAAATTCACAAGGGTGTATACCAAGAGCTCCCTAACTCGGATCCTGCTGACCCAAACTCGGATC
CTGCTGACCTAATTTTCCAAAAAGACTATCTTGAATATGGTGAAATCCTGCCTTTTCCTGAGTCTCAGTTAGTAG
AGTTAAACAGTTCTCTACAAAACACTTCCAAGAATATGTAAAAAGGACAATTCCAGAATACGTCCCTGCATTTG
CAAACACTGGAGGAGGCTATCTTTTTATTGGAGTGGATGATAAGAGTAGGGAAGTCCTGGGATGTGCAAAAGAAA
ATGTTGACCCTGACTCTTTGAGAAGGAAAATAGAACAAGCCATATACAAACTACCTTGTGTTCATTTTTGCCAAC
CCCAACGCCCGATAACCTTCACACTCAAAATTGTGAATGTGTTAAAAAGGGGAGAGCTCTATGGCTATGCTTGCA
TGATCAGAGTAAATCCCTTCTGCTGTGCAGTGTTCTCAGAAGCTCCCAATTCATGGATAGTGGAGGACAAGTACG
TCTGCAGCCTGACAACCGAGAAATGGGTAGGCATGATGACAGACACAGATCCAGATCTTCTACAGTTGTCTGAAG
ATTTGAATGTCAGCTGAGTCTATCTAGTGGGCCTCCCCTTAGCAGACCAGTGTACTCCAAGAAAGGCCTGGAAC
ATAAAAAGGAACTCCAGCAACTTTTATTTTCAGTCCCACCAGGATATTTGCGATATACTCCAGAGTCACTCTGGA
GGGACCTGATCTCAGAGCACAGAGGACTAGAGGAGTTAATAAATAAGCAAATGCAACCTTTCTTTCGGGGAATTT
TGATCTTCTCTAGAAGTTGGGCTGTGGACCTGAACTTGCAGGAGAAGCCAGGAGTCATCTGTGATGCTCTGCTGA
TAGCACAGAACAGCACCCCCATTCTCTACACCATTCTCAGGGAGCAAGATGCAGAGGGCCAGGACTACTGCACTC
GCACCGCCTTTACTTTGAAGCAGAAGCTAGTGAACATGGGGGGCTACACCGGGAAGGTGTGTGTCAGGGCCAAGG
TCCTCTGCCTGAGTCCTGAGAGCAGCGCAGAGGCCTTGGAGGCTGCAGTGTCTCCGATGGATTACCCTGCGTCCT
ATAGCCTTGCAGGCACCCAGCACATGGAAGCCCTGCTGCAGTCCCTCGTGATTGTCTTACTCGGCTTCAGGTCTC
TCTTGAGTGACCAGCTCGGCTGTGAGGTTTTAAATCTGCTCACAGCCCAGCAGTATGAGATATTCTCCAGAAGCC
TCCGCAAGAACAGAGAGTTGTTTGTCCACGGCTTACCTGGCTCAGGGAAGACCATCATGGCCATGAAGATCATGG
AGAAGATCAGGAATGTGTTTCACTGTGAGGCACACAGAATTCTCTACGTTTGTGAAAACCAGCCTCTGAGGAACT
TTATCAGTGATAGAAATATCTGCCGAGCAGAGACCCGGAAAACTTTCCTAAGAGAAAACTTTGAACACATTCAAC
ACATCGTCATTGACGAAGCTCAGAATTTCCGTACTGAAGATGGGGACTGGTATGGGAAGGCAAAAAGCATCACTC
GGAGAGCAAAGGGTGGCCCAGGAATTCTCTGGATCTTTCTGGATTACTTTCAGACCAGCCACTTGGATTGCAGTG
GCCTCCCTCCTCTCAGACCAATATCCAAGAGAAGAGCTCACCAGAATAGTTCGCAATGCAGATCCAATAGCCA
AGTACTTACAAAAAGAAATGCAAGTAATTAGAAGTAATCCTTCATTTAACATCCCCACTGGGTGCCTCGAGGTAT
TTCCTGAAGCCGAATGGTCCCAGGGTGTTCAGGGAACCTTACGAATTAAGAAATACTTGACTGTGGAGCAAATAA
TGACCTGTGTGGCAGACACGTGCAGGCGCTTCTTTGATAGGGGCTATTCTCCAAAGGATGTTGCTGTGCTTGTCA
GCACCGCAAAAGAAGTGGAGCACTATAAGTATGAGCTCTTGAAAGCAATGAGGAAGAAAAGGGTGGTGCAGCTCA
GTGATGCATGTGATATGTTGGGTGATCACATTGTGTTGGACAGTGTTCGGCGATTCTCAGGCCTGGAAAGGAGCA
TAGTGTTTGGGATCCATCCAAGGACAGCTGACCCAGCTATCTTACCCAATGTTCTGATCGTCTGGCTTCCAGGG
CAAAACAACACCTGTATATTTTTCCGTGGGGTGGCCATTAGGAAGAACTCCAAATCAAAATGCTATGTAAATGTC
TATGGGTGACAGTCTGCTGATGGTAGAAACCTTTCTTTTTAGTTCACAAGTCAGAGATTTGGACGGAGCTGACAC
AAAGAGTTTGGAGCTCCCCCATTTCTGGCTCTCCTTTCAGGGGTTCCTTCCCCAACCCTTTCAGCAGCGGTGGCT
GCCCCCCATTCTGACCCCTGACTCTTCCAGCCAGAAAGATGGTGGTTTTCTAAAGGAACTTTAGCTGTCCTGCAC
AATGCCGATCTGTGTCTTGCATTTTGGGTAAAAGCCATAAAAATAAGAAACTCAGCCTGTGGCCTTTCTTTCTTC
CAAGGCTGGGCTTCTTTTTTTAAGTGACTTCATGCAGTTGTTGCTTTTAAAAATTTGTCCAGAATCGTTTTCTG
CAGAAGCATGGTCTGTTAGGAGCTTACTGGCCGTAGCAGAAGCAATTGTTTCCTGAATTCTTGACATTTATCTTT
GCTGTATTCATTTAGGGCTTGGGAGAGTCCGAAGATAATTCAGTCACTGTCAGATTAATAATTTTGTCAGGACAA
AGAATACCGTTATGATTATTTAATCCTTTAAAATTGTGGTCTCCAGAGCTTGTTCTCAGAATGGCCCAGACCAAG
CCTTAATTGTGATAGTGAATATTAATGGTCACTTTAAGGAGAAATTATAGGCCAAGATGAAATGAACATAAACCT
GTTTGCCCTGGCTTTCAGTGGAAGATGATATTAGAGACCAAAATCTGGTTCTGAAGGTGTGTATCAGCCCTAAGG

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FIGURE 4794B

TGAACCAGACTTGGGAAAGATTGTCTTTAAAAATCAATGAGTTTATGTTTTAACTTCTCAGCTTAGTTCTATGCA
TTGCTCTATAACACACCTAGTTAAGTTTTATGTTATTCTTGAACTGTGATTTTTTTCTATTTACTTTCATGGTT
TGGTGGGCCATTGTTATGGACTGAATGTTTGTGTCCCACCCTTCACCCCCAAATTCCCGTGTTGAAGCCCCAACC
TGCACTGTGGAGCTGGGGCTGCTAAGGAAGTAATTAAGGTTACATGAAGTCATGGTGGGGCTCTGATCTGCTAAG
GTTGGTGTCCTTATAGGGAGAGACCCCAGAGAGCTTGTTCCCTCCCTCCCTGTGCATGCAAACAAGAGGGCATGG
GAGCACACAGAGAGATGGCAGCCACCTACAAGCCAAGAGGAGAAGCCTCACAATCAAACTCTCGCTGCTGGCGAG
AGTCTTGGACTCTGTCTTGGACTTCCAGCCTCCAGACTGTGAGAAACAAATTTCTGTTGTTTCAGCTTCTCAGTC
TCTGGTGTTTTGTTATTGCAGCCTGAGAACACAGCTGTACGATTATTTGTCAAACAGAAAACACTGATACTTAAC
AATGCTAATGCAATTATTTATTTGCTTTTCAGTCTCTACAAAACGTTCTAAAACACTAATCTAAATATTAACAGT
AAAATATTTGCATAACTAATGGAAACTAAGAAATCATATGACCAATATTTCACTTATTGGTAATCTTACTCTACT
GATTTCCCCCCAGACTGTGATTTTTGAACTTCCTTGCCTTTCTCCTGTCTTTCTGTGTTTATTCATGGAATTCCA
GTTATCTGGGCTTGAAATTGCAGGCTCTCCTAACTTAAGCAAAATCTGACAGATCAGCAAAATGAGATAAATGTT
TCTTTTTTCTTTCTGACTGCATTAAATCAGATACAACTCAGCATTAAAAAGCTATCTTTGTAAATGTTGTTACTA
ATAAATTAGTCTTATAAGATCCCTGGACTTTGGAGTTGTTGCAATGTCTTTGAGAGTAATTCTTTAAAAGTCTAA
TTTCGACTGGTTGTATCTCTTTATGATTTATTGCCCCACTAACAATATTTGAAACAATATAATATTTTAAAATGT
ATAAATAATTATGAATTTTTGTTTAGAACAAAGAGGATTACTGATATTTGTTTCCCTATGAATGGCAAAAGGTTT
AGCTTACTACTGCATTTCTGTTTTAAATAAAAAGTTGAGAGTTTGTGTCTCATTAAACTG

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FIGURE 4795

MEANQCPLVVEPSYPDLVINVGEVTLGEENRKKLQKIQRDQEKERVMRAACALLNSGGGVIRMAKKVEHPVEMGL
DLEQSLRELIQSSDLQAFFETKQQGRCFYIFVKSWSSGPFPEDRSVKPRLCSLSSSLYRRSETSVRSMDSREAFC
FLKTKRKPKILEEGPFHKIHKGVYQELPNSDPADPNSDPADLIFQKDYLEYGEILPFPESQLVEFKQFSTKHFQE
YVKRTIPEYVPAFANTGGGYLFIGVDDKSREVLGCAKENVDPDSLRRKIEQAIYKLPCVHFCQPQRPITFTLKIV
NVLKRGELYGYACMIRVNPFCCAVFSEAPNSWIVEDKYVCSLTTEKWVGMMTDTDPDLLQLSEDFECQLSLSSGP
PLSRPVYSKKGLEHKKELQQLLFSVPPGYLRYTPESLWRDLISEHRGLEELINKQMQPFFRGILIFSRSWAVDLN
LQEKPGVICDALLIAQNSTPILYTILREQDAEGQDYCTRTAFTLKQKLVNMGGYTGKVCVRAKVLCLSPESSAEA
LEAAVSPMDYPASYSLAGTQHMEALLQSLVIVLLGFRSLLSDQLGCEVLNLLTAQQYEIFSRSLRKNRELFVHGL
PGSGKTIMAMKIMEKIRNVFHCEAHRILYVCENQPLRNFISDRNICRAETRKTFLRENFEHIQHIVIDEAQNFRT
EDGDWYGKAKSITRRAKGGPGILWIFLDYFQTSHLDCSGLPPLSDQYPREELTRIVRNADPIAKYLQKEMQVIRS
NPSFNIPTGCLEVFPEAEWSQGVQGTLRIKKYLTVEQIMTCVADTCRRFFDRGYSPKDVAVLVSTAKEVEHYKYE
LLKAMRKKRVVQLSDACDMLGDHIVLDSVRRFSGLERSIVFGIHPRTADPAILPNVLICLASRAKQHLYIFPWGG
H

FIGURE 4796A

AATTCTCGAGCTCGTCGACCGGTCGACGAGCTCGAGGGTCGACGAGCTCGAGGGCGCGCGCCCGGCCCCCACCCC
TCGCAGCACCCCGCGCCCCGCGCCCTCCCAGCCGGGTCCAGCCGGAGCCATGGGGCCGGAGCCGCAGTGAGCACC
ATGGAGCTGGCGGCCTTGTGCCGCTGGGGGCTCCTCCTCGCCCTCTTGCCCCCCGGAGCCGCGAGCACCCAAGTG
TGCACCGGCACAGACATGAAGCTGCGGCTCCCTGCCAGTCCCGAGACCCACCTGGACATGCTCCGCCACCTCTAC
CAGGGCTGCCAGGTGGTGCAGGGAAACCTGGAACTCACCTACCTGCCCACCAATGCCAGCCTGTCCTTCCTGCAG
GATATCCAGGAGGTGCAGGGCTACGTGCTCATCGCTCACAACCAAGTGAGGCAGGTCCCACTGCAGAGGCTGCGG
ATTGTGCGAGGCACCCAGCTCTTTGAGGACAACTATGCCCTGGCCGTGCTAGACAATGGAGACCCGCTGAACAAT
ACCACCCCTGTCACAGGGGCCTCCCCAGGAGGCCTGCGGGAGCTGCAGCTTCGAAGCCTCACAGAGATCTTGAAA
GGAGGGGTCTTGATCCAGCGGAACCCCCAGCTCTGCTACCAGGACACGATTTTGTGGAAGGACATCTTCCACAAG
AACAACCAGCTGGCTCTCACACTGATAGACACCAACCGCTCTCGGGCCTGCCACCCCTGTTCTCCGATGTGTAAG
GGCTCCCGCTGCTGGGGAGAGAGTTCTGAGGATTGTCAGAGCCTGACGCGCACTGTCTGTGCCGGTGGCTGTGCC
CGCTGCAAGGGGCCACTGCCCACTGACTGCTGCCATGAGCAGTGTGCTGCCGGCTGCACGGGCCCCAAGCACTCT
GACTGCCTGGCCTGCCTCCACTTCAACCACAGTGGCATCTGTGAGCTGCACTGCCCAGCCCTGGTCACCTACAAC
ACAGACACGTTTGAGTCCATGCCCAATCCCGAGGGCCGGTATACATTCGGCGCCAGCTGTGTGACTGCCTGTCCC
TACAACTACCTTTCTACGACGTGGGATCCTGCACCCTCGTCTGCCCCCTGCACAACCAAGAGGTGACAGCAGAG
GATGGAACACAGCGGTGTGAGAAGTGCAGCAAGCCCTGTGCCCGAGTGTGCTATGGTCTGGGCATGGAGCACTTG
CGAGAGGTGAGGGCAGTTACCAGTGCCAATATCCAGGAGTTTGCTGGCTGCAAGAAGATCTTTGGGAGCCTGGCA
TTTCTGCCGGAGAGCTTTGATGGGGACCCAGCCTCCAACACTGCCCCGCTCCAGCCAGAGCAGCTCCAAGTGTTT
GAGACTCTGGAAGAGATCACAGGTTACCTATACATCTCAGCATGGCCGGACAGCCTGCCTGACCTCAGCGTCTTC
CAGAACCTGCAAGTAATCCGGGGACGAATTCTGCACAATGGCGCCTACTCGCTGACCCTGCAAGGGCTGGGCATC
AGCTGGCTGGGGCTGCGCTCACTGAGGGAACTGGGCAGTGGACTGGCCCTCATCCACCATAACACCCACCTCTGC
TTCGTGCACACGGTGCCCTGGGACCAGCTCTTTCGGAACCCGCACCAAGCTCTGCTCCACACTGCCAACCGGCCA
GAGGACGAGTGTGTGGGCGAGGGCCTGGCCTGCCACCAGCTGTGCGCCCGAGGGCACTGCTGGGGTCCAGGGCCC
ACCCAGTGTGTCAACTGCAGCCAGTTCCTTCGGGGCCAGGAGTGCGTGGAGGAATGCCGAGTACTGCAGGGGCTC
CCCAGGGAGTATGTGAATGCCAGGCACTGTTTGCCGTGCCACCCTGAGTGTCAGCCCCAGAATGGCTCAGTGACC
TGTTTTGGACCGGAGGCTGACCAGTGTGTGGCCTGTGCCCACTATAAGGACCCTCCCTTCTGCGTGGCCCGCTGC
CCCAGCGGTGTGAAACCTGACCTCTCCTACATGCCCATCTGGAAGTTTCCAGATGAGGAGGGCGCATGCCAGCCT
TGCCCCATCAACTGCACCCACTCCTGTGTGGACCTGGATGACAAGGGCTGCCCCGCCGAGCAGAGAGCCAGCCCT
CTGACGTCCATCGTCTCTGCGGTGGTTGGCATTCTGCTGGTCGTGGTCTTGGGGGTGGTCTTTGGGATCCTCATC
AAGCGACGGCAGCAGAAGATCCGGAAGTACACGATGCGGAGACTGCTGCAGGAAACGGAGCTGGTGGAGCCGCTG
ACACCTAGCGGAGCGATGCCCAACCAGGCGCAGATGCGGATCCTGAAAGAGACGGAGCTGAGGAAGGTGAAGGTG
CTTGGATCTGGCGCTTTTGGCACAGTCTACAAGGGCATCTGGATCCCTGATGGGGAGAATGTGAAAATTCCAGTG
GCCATCAAAGTGTTGAGGGAAAACACATCCCCCAAAGCCAACAAAGAAATCTTAGACGAAGCATACGTGATGGCT
GGTGTGGGCTCCCCATATGTCTCCCGCCTTCTGGGCATCTGCCTGACATCCACGGTGCAGCTGGTGACACAGCTT
ATGCCCTATGGCTGCCTCTTAGACCATGTCCGGGAAAACCGCGGACGCCTGGGCTCCCAGGACCTGCTGAACTGG
TGTATGCAGATTGCCAAGGGGATGAGCTACCTGGAGGATGTGCGGCTCGTACACAGGGACTTGGCCGCTCGGAAC
GTGCTGGTCAAGAGTCCCAACCATGTCAAAATTACAGACTTCGGGCTGGCTCGGCTGCTGGACATTGACGAGACA
GAGTACCATGCAGATGGGGGCAAGGTGCCCATCAAGTGGATGGCGCTGGAGTCCATTCTCCGCCGGCGGTTCACC
CACCAGAGTGATGTGTGGAGTTATGGTGTGACTGTGTGGGAGCTGATGACTTTTGGGGCCAAACCTTACGATGGG
ATCCCAGCCCGGGAGATCCCTGACCTGCTGGAAAAGGGGGAGCGGCTGCCCCAGCCCCCCATCTGCACCATTGAT
GTCTACATGATCATGGTCAAATGTTGGATGATTGACTCTGAATGTCGGCCAAGATTCCGGGAGTTGGTGTCTGAA
TTCTCCCGCATGGCCAGGGACCCCCAGCGCTTTGTGGTCATCCAGAATGAGGACTTGGGCCCAGCCAGTCCCTTG
GACAGCACCTTCTACCGCTCACTGCTGGAGGACGATGACATGGGGGACCTGGTGGATGCTGAGGAGTATCTGGTA
CCCCAGCAGGGCTTCTTCTGTCCAGACCCTGCCCCGGGCGCTGGGGGCATGGTCCACCACAGGCACCGCAGCTCA
TCTACCAGGAGTGGCGGTGGGGACCTGACACTAGGGCTGGAGCCCTCTGAAGAGGAGGCCCCCAGGTCTCCACTG
GCACCCTCCGAAGGGGCTGGCTCCGATGTATTTGATGGTGACCTGGGAATGGGGGCAGCCAAGGGGCTGCAAAGC
CTCCCCACACATGACCCCAGCCCTCTACAGCGGTACAGTGAGGACCCCACAGTACCCCTGCCCTCTGAGACTGAT
GGCTACGTTGCCCCCCTGACCTGCAGCCCCCAGCCTGAATATGTGAACCAGCCAGATGTTCGGCCCCAGCCCCCT

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FIGURE 4796B

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TCGCCCCGAGAGGGCCCTCTGCCTGCTGCCCGACCTGCTGGTGCCACTCTGGAAAGGGCCAAGACTCTCTCCCCA
GGGAAGAATGGGGTCGTCAAAGACGTTTTTGCCTTTGGGGGTGCCGTGGAGAACCCCGAGTACTTGACACCCCAG
GGAGGAGCTGCCCCTCAGCCCCACCCTCCTCCTGCCTTCAGCCCAGCCTTCGACAACCTCTATTACTGGGACCAG
GACCCACCAGAGCGGGGGGGCTCCACCCAGCACCTTCAAAGGGACACCTACGGCAGAGAACCCAGAGTACCTGGGT
CTGGACGTGCCAGTGTGAACCAGAAGGCCAAGTCCGCAGAAGCCCTGATGTGTCCTCAGGGAGCAGGGAAGGCCT
GACTTCTGCTGGCATCAAGAGGTGGGAGGGCCCTCCGACCACTTCCAGGGGAACCTGCCATGCCAGGAACCTGTC
CTAAGGAACCTTCCTTCCTGCTTGAGTTCCCAGATGGCTGGAAGGGGTCCAGCCTCGTTGGAAGAGGAACAGCAC
TGGGGAGTCTTTGTGGATTCTGAGGCCCTGCCCAATGAGACTCTAGGGTCCAGTGGATGCCACAGCCCAGCTTGG
CCCTTTCCTTCCAGATCCTGGGTACTGAAAGCCTTAGGGAAGCTGGCCTGAGAGGGGAAGCGGCCCTAAGGGAGT
GTCTAAGAACAAAAGCGACCCATTCAGAGACTGTCCCTGAAACCTAGTACTGCCCCCCATGAGGAAGGAACAGCA
ATGGTGTCAGTATCCAGGCTTTGTACAGAGTGCTTTTCTGTTTAGTTTTTACTTTTTTTGTTTTGTTTTTTTAAA
GACGAAATAAAGACCCAGGGGAGAATGGGTGTTGTATGGGGAGGCAAGTGTGGGGGGTCCTTCTCCACACCCACT
TTGTCCATTTGCAAATATATTTTGGAAAAC
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FIGURE 4797

MELAALCRWGLLLALLPPGAASTQVCTGTDMKLRLPASPETHLDMLRHLYQGCQVVQGNLELTYLPTNASLSFLQ
DIQEVQGYVLIAHNQVRQVPLQRLRIVRGTQLFEDNYALAVLDNGDPLNNTTPVTGASPGGLRELQLRSLTEILK
GGVLIQRNPQLCYQDTILWKDIFHKNNQLALTLIDTNRSRACHPCSPMCKGSRCWGESSEDCQSLTRTVCAGGCA
RCKGPLPTDCCHEQCAAGCTGPKHSDCLACLHFNHSGICELHCPALVTYNTDTFESMPNPEGRYTFGASCVTACP
YNYLSTDVGSCTLVCPLHNQEVTAEDGTQRCEKCSKPCARVCYGLGMEHLREVRAVTSANIQEFAGCKKIFGSLA
FLPESFDGDPASNTAPLQPEQLQVFETLEEITGYLYISAWPDSLPDLSVFQNLQVIRGRILHNGAYSLTLQGLGI
SWLGLRSLRELGSGLALIHHNTHLCFVHTVPWDQLFRNPHQALLHTANRPEDECVGEGLACHQLCARGHCWGPGP
TQCVNCSQFLRGQECVEECRVLQGLPREYVNARHCLPCHPECQPQNGSVTCFGPEADQCVACAHYKDPPFCVARC
PSGVKPDLSYMPIWKFPDEEGACQPCPINCTHSCVDLDDKGCPAEQRASPLTSIVSAVVGILLVVVLGVVFGILI
KRRQQKIRKYTMRRLLQETELVEPLTPSGAMPNQAQMRILKETELRKVKVLGSGAFGTVYKGIWIPDGENVKIPV
AIKVLRENTSPKANKEILDEAYVMAGVGSPYVSRLLGICLTSTVQLVTQLMPYGCLLDHVRENRGRLGSQDLLNW
CMQIAKGMSYLEDVRLVHRDLAARNVLVKSPNHVKITDFGLARLLDIDETEYHADGGKVPIKWMALESILRRRFT
HQSDVWSYGVTVWELMTFGAKPYDGIPAREIPDLLEKGERLPQPPICTIDVYMIMVKCWMIDSECRPRFRELVSE
FSRMARDPQRFVVIQNEDLGPASPLDSTFYRSLLEDDDMGDLVDAEEYLVPQQGFFCPDPAPGAGGMVHHRHRSS
STRSGGGDLTLGLEPSEEEAPRSPLAPSEGAGSDVFDGDLGMGAAKGLQSLPTHDPSPLQRYSEDPTVPLPSETD
GYVAPLTCSPQPEYVNQPDVRPQPPSPREGPLPAARPAGATLERAKTLSPGKNGVVKDVFAFGGAVENPEYLTPQ
GGAAPQPHPPPAFSPAFDNLYYWDQDPPERGAPPSTFKGTPTAENPEYLGLDVPV

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FIGURE 4798

CTTTCCTTTCGCTGCTGCGGCCGCAGCC**ATG**AGTATGCTCAGGCTTCAGAAGAGGCTCGCCTCTAGTGTCCTCCG
CTGTGGCAAGAAGAAGGTCTGGTTAGACCCCAATGAGACCAATGAAATCGCCAATGCCAACTCCCGTCAGCAGAT
CCGGAAGCTCATCAAAGATGGGCTGATCATCCGCAAGCCTGTGACGGTCCATTCCCGGGCTCGATGCCGGAAAAA
CACCTTGGCCCGCCGGAAGGGCAGGCACATGGGCATAGGTAAGCGGAAGGGTACAGCCAATGCCCGAATGCCAGA
GAAGGTCACATGGATGAGGAGAATGAGGATTTTGCGCCGGCTGCTCAGAAGATACCGTGAATCTAAGAAGATCGA
TCGCCACATGTATCACAGCCTGTACCTGAAGGTGAAGGGGAATGTGTTCAAAAACAAGCGGATTCTCATGGAACA
CATCCACAAGCTGAAGGCAGACAAGGCCCGCAAGAAGCTCCTGGCTGACCAGGCTGAGGCCCGCAGGTCTAAGAC
CAAGGAAGCACGCAAGCGCCGTGAAGAGCGCCTCCAGGCCAAGAAGGAGGAGATCATCAAGACTTTATCCAAGGA
GGAAGAGACCAAGAAA**TAA**AACCTCCCACTTTGTCTGTACATACTGGCCTCTGTGATTACATAGATCAGCCATTA
AAATAAAACAAGCCTTAATCTGC

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FIGURE 4799

MSMLRLQKRLASSVLRCGKKKVWLDPNETNEIANANSRQQIRKLIKDGLIIRKPVTVHSRARCRKNTLARRKGRH
MGIGKRKGTANARMPEKVTWMRRMRILRRLLRRYRESKKIDRHMYHSLYLKVKGNVFKNKRILMEHIHKLKADKA
RKKLLADQAEARRSKTKEARKRREERLQAKKEEIIKTLSKEEETKK

FIGURE 4800A

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AGCTCCAGCCGCCGTCGCTGCTGCCTGTGTAGTTGCAGCCGCGGCCGCCTCCCGCCAGCTCGCCTCGGGGAACAG
GACGCGCGTGAGCTCCAGGGCXTCCCCGCCCCAGCTTTTCTCGGAACCATGAACCCCAACTGCGCCCGGTGCGGC
AAGATCGTGTATCCCACGGAGAAGGTGAACTGTCTGGATAAGTTCTGGCATAAAGCATGCTTCCATTGCGAGACC
TGCAAGATGACACTGAACATGAAGAACTACAAGGGCTACGAGAAGAAGCCCTACTGCAACGCACACTACCCCAAG
CAGTCCTTCACCATGGTGGCGGACACCCCGGAAAACCTTCGCCTCAAGCAACAGAGTGAGCTCCAGAGTCAGGTG
CGCTACAAGGAGGAGTTTGAGAAGAACAAGGGCAAAGGTTTCAGCGTAGTGGCAGACACGCCCGAGCTCCAGAGA
ATCAAGAAGACCCAGGACCAGATCAGTAACATAAAATACCATGAGGAGTTTGAGAAGAGCCGCATGGGCCCTAGC
GGGGGCGAGGGCATGGAGCCAGAGCGTCGGGATTCACAGGACGGCAGCAGCTACCGGCGGCCCCTGGAGCAGCAG
CAGCCTCACCACATCCCGACCAGTGCCCCGGTTTACCAGCAGCCCCAGCAGCAGCCGGTGGCCCAGTCCTATGGT
GGCTACAAGGAGCCTGCAGCCCCAGTCTCCATACAGCGCAGCGCCCCCATCTGTCTTCAGCACATTCCACGGCAT
CGCATCCGTCCTGGGCGTGACCCGTCCATTCTTCAGTGTCTCTGTTTTTAAAACCTGCGACAGCTTGTGATTCC
TACCCCTCTTCCAGCTTCTTTTGCCAACTGAAGCCTTCTTCTGCCACTTCTGCGGGCTCCCTCCTCTGGCAGGCT
TCCCCCTTGATCGACTTCTTGGTTTTCTCTCTGGATGGAACGGGCATGGGCCTCTCTGGGGGAGGCAGGGCTGGA
ATGGGAGACCTGTTGGCCTGTGGGCCTCACCTGCCCCTCTGTTCTCTCCCCTCACATCCTCCTGCCCAGCTCCTC
ACATACCCACACATTCCAGGGCTGGGGTGAGCCTGACTGCCAGGACCCCAGGTCAGGGGCTCCCTACATTCCCCA
GAGTGGGATCCACTTCTTGGTTCCTGGGATGGCGATGGGGACTCTGCCGCTGTGTAGGGACCAGTGGGATGGGCT
CTACCTCTCTTTCTCAAAGAGGGGGCTCTGCCCACCTGGGGTCTCTCTCCCTACCTCCCTCCTCAGGGGCAACAA
CAGGAGAATGGGGTTCCTGCTGTGGGGCGAATTCATCCCCTCCCCGCGCGTTCCTTCGCACACTGTGATTTTGCC
CTCCTGCCCACGCAGACCTGCAGCGGGCAAAGAGCTCCCGAGGAAGCACAGCTTGGGTCAGGTTCTTGCCTTTCT
TAATTTTAGGGACAGCTACCGGAAGGAGGGGAACAAGGAGTTCTCTTCCGCAGCCCCTTTCCCCACGCCCACCCC
CAGTCTCCAGGGACCCTTGCCTGCCTCCTAGGCTGGAAGCCATGGTCCCGAAGTGTAGGGCAAGGGTGCCTCAGG
ACCTTTTGGTCTTCAGCCTCCCTCAGCCCCCAGGATCTGGGTTAGGTGGCCGCTCCTCCCTGCTCCTCATGGGAA
GATGTCTCAGAGCCTTCCATGACCTCCCCTCCCCAGCCCAATGCCAAGTGGACTTGGAGCTGCACAAAGTCAGCA
GGGACCACTAAATCTCCAAGACCTGGTGTGCGGAGGCAGGAGCATGTATGTCTGCAGGTGTCTGACACGCAAGTG  ١
TGTGAGTGTGAGTGTGAGAGATGGGGCGGGGGTGTGTCTGTAGGTGTCTCTGGGCCTGTGTGTGGGTGGGGTTAT
GTGAGGGTATGAAGAGCTGTCTTCCCCTGAGAGTTTCCTCAGAACCCACAGTGAGAGGGGAGGGCTCCTGGGGCA
GAGAAGTTCCTTAGGTTTTCTTTGGAATGAAATTCCTCCTTCCCCCCATCTCTGAGTGGAGGAAGCCCACCAATC
TGCCCTTTGCAGTGTGCAGGGTGGAAGGTAAGAGGTTGGTGTGGAGTTGGGGCTGCCATAGGGTCTGCAGCCTGC
TGGGGCTAAGCGGTGGAGGAAGGCTCTGTCACTCCAGGCATATGTTTCCCCATCTCTGTCTGGGGCTACAGAATA
GGGTGGCAGAAGTGTCACCCTGTGGGTGTCTCCCTCGGGGGCTCTTCCCCTAGACCTCCCCCTCACTTACATAAA
GCTCCCTTGAAGCAAGAAAGCTCTCTGCTCATGGGTGGCTGTGACAACCCTGGCCTCACTTGATTCATCTCTGGT
TTTCTTGCCACCCTCTGGGAGTCCCCATCCCATTTTCATCCTGAGCCCAACCAGGCCCTGCCATTGGCCTCTTGT
CCCTTGGCACACTTGTACCCACAGGTGAGGGGCAGGACCTGAAGGTATTGGCCTGTTCAACAATCAGTCATCATG
GGTGTTTTTGTCAACTGCTTGTTAATTGATTTGGGGATGTTTGCCCCGAATGAGAGGTTGAGGAAAAGACTGTGG
GTGGGGAGGCCCTGCCTGACCCATCCCTTTTCCTTTCTGGCCCCAGCCTAGGTGGAGGCAAGTGGAATATCTTAT
ATTGGGCGATTTGGGGGCTCGGGGAGGCAGAGAATCTCTTGGGAGTCTTGGGTGGCGCTGGTGCATTCTGTTTCC
TCTTGATCTCAAAGCACAATGTGGATTTGGGGACCAAAGGTCAGGGACACATCCCCTTAGAGGACCTGAGTTTGG
GAGAGTGGTGAGTGGAAGGGAGGAGCAGCAAGAAGCAGCCTGTTTTCACTCAGCTTAATTCTCCTTCCCAGATAA
GGCAAGCCAGTCATGGAATCTTGCTGCAGGCCCTCCCTCTACTCTTCCTGTCCTAAAAATAGGGGCCGTTTTCTT
ACACACCCCCAGAGAGAGGAGGGGACTGTCACACTGGTGCTGAGTGACCGGGGGCTGCTGGGCGTCTGTTCTTTAC
CAAAACCATCCATCCCTAGAAGAGCACAGAGCCCTGAGGGGCTGGGCTGGGCTGGGCTGAGCCCCTGGTCTTCTC
TACAGTTCACAGAGGTCTTTCAGCTCATTTAATCCCAGGAAAGAGGCATCAAAGCTAGAATGTGAATATAACTTT
TGTGGACCAATACTAAGAATAACAAGAAGCCCAGTGGTGAGGAAAGTGCGTTCTCCCAGCACTGCCTCCTGTTTT
CTCCCTCTCATGTCCCTCCAGGGAAAATGACTTTATTGCTTAATTTCTGCCTTTCCCCCCTCACACATGCACTTT
TGGGCCTTTTTTTATAGCTGGAAAAAACAAAATACCACCCTACAAACCTGTATTTAAAAAGAAACAGAAATGACC
ACGTGAAATTTGCCTCTGTCCAAACATTTCATCCGTGTGTATGTGTATGTGTGTGAGTGTGTGAAGCCGCCAGTT
CATCTTTTTATATGGGGTTGTTGTCTCATTTGGTCTGTTTTGGTCCCCTCCCTCGTGGGCTTGTGCTCGGGATC
AAACCTTTCTGGCCTGTTATGATTCTGAACATTTGACTTGAACCACAAGTGAATCTTTCTCCTGGTGACTCAAAT
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FIGURE 4800B

AAAAGTATAATTTTTACCTGC

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FIGURE 4801

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CTTTTTTCTTTTTTCCGGCGTTCAAGATGTCGAAGCGAGGACGTGGTGGGTCCTCTGGTGCGAAATTCCGGATTT
CCTTGGGTCTTCCGGTAGGAGCTGTAATCAATTGTGCTGACAACACAGGAGCCAAAAACCTGTATATCATCTCCG
TGAAGGGGATCAAGGGACGGCTGAACAGACTTCCCGCTGCTGGTGTGGGTGACATGGTGATGGCCACAGTCAAGA
AAGGCAAACCAGAGCTCAGAAAAAAGGTACATCCAGCAGTGGTCATTCGACAACGAAAGTCATACCGTAGAAAAG
ATGGCGTGTTTCTTTATTTTGAAGATAATGCAGGAGTCATAGTGAACAATAAAGGCGAGATGAAAGGTTCTGCCA
TTACAGGACCAGTAGCAAAGGAGTGTGCAGACTTGTGGCCCCGGATTGCATCCAATGCTGGCAGCATTGCATGAT
TCTCCAGTATATTTGTAAAAAATAAAAAAAAACTAAACCCATT
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FIGURE 4802

MSKRGRGGSSGAKFRISLGLPVGAVINCADNTGAKNLYIISVKGIKGRLNRLPAAGVGDMVMATVKKGKPELRKK
VHPAVVIRQRKSYRRKDGVFLYFEDNAGVIVNNKGEMKGSAITGPVAKECADLWPRIASNAGSIA

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FIGURE 4803

TGCCAGCGGGGAGGCTGCAGCCGCGGGTTGTTACAGCTGCTGGAGCAGCAGCGGCCCCCGCTCCCGGGAACCGTT
CCCGGGCCGTTGATCTTCGGCCCCACACGAACAGCAGAGAGGGGCAGCAGG**ATG**AATGTGGGCACAGCGCACAGC
GAGGTGAACCCCAACACGCGGGTGATGAACAGCCGTGGCATCTGGCTCTCCTACGTGCTGGCCATCGGTCTCCTC
CACATCGTGCTGCTGAGCATCCCGTTTGTGAGTGTCCCTGTCGTCTGGACCCTCACCAACCTCATTCACAACATG
GGCATGTATATCTTCCTGCACACGGTGAAGGGGACACCCTTTGAGACCCCGGACCAGGGCAAGGCGAGGCTGCTA
ACCCACTGGGAGCAGATGGATTATGGGGTCCAGTTCACGGCCTCTCGGAAGTTCTTGACCATCACACCCATCGTG
CTGTACTTCCTCACCAGCTTCTACACTAAGTACGACCAGATCCATTTTGTGCTCAACACCGTGTCCCTGATGAGC
GTGCTTATCCCCAAGCTGCCCCAGCTCCACGGAGTCCGGATTTTTGGAATCAATAAGTAC**TGA**GAGTGCAGCCCC
TTCCCCTGCCCAGGGTGGCAGGGGAGGGGTAGGGTAAAAGGCATGTGCTGCAACACTGAAGACAGAAAGAAGAAG
CCTCTGGACACTGCCAGAGATGGGGGTTGAGCCTCTGGCCTAATTTCCCCCCTCGCTTCCCCCAGTAGCCAACTT
GGAGTAGCTTGTAGTGGGGTTGGGGTAGGCCCCCTGGGCTCTGACCTTTTCTGAATTTTTTGATCTTTTCCTTTT
GCTTTTTGAATAGAGACTCCATGGAGTTGGTCATGGAATGGGCTGGGCTCCTGGGCTGAACATGGACCACGCAGT
TGCGACAGGAGGCCAGGGGAAAAACCCCTGCTCACTTGTTTGCCCTCAGGCAGCCAAAGCACTTTAACCCCTGCA
TAGGGAGCAGAGGGCGGTACGGCTTCTGGATTGTTTCACTGTGATTCCTAGGTTTTTTCGATGCCACGCAGTGTG
TGCTTTTGTGTATGGAAGCAAGTGTGGGATGGGTCTTTGCCTTTCTGGGTAGGGAGCTGTCTAATCCAAGTCCCA
GGCTTTTGGCAGCTTCTCTGCAACCCACCGTGGGTCCTGGTTGGGAGTGGGGAGGGTCAGGTTGGGGAAAGATGG
GGTAGAGTGTAGATGGCTTGGTTCXCAGAGGTGAGGGGGCCAGGGCTGCTGCCATCCTGGCCTGGTGGAGGTTGG
GGAGCTGTAGGAGAGCTAGTGAGTCGAGACTTAGAAGAATGGGGCCACATAGCAGCAGAGGACTGGTGTAAGGGA

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FIGURE 4804

MNVGTAHSEVNPNTRVMNSRGIWLSYVLAIGLLHIVLLSIPFVSVPVVWTLTNLIHNMGMYIFLHTVKGTPFETP
DQGKARLLTHWEQMDYGVQFTASRKFLTITPIVLYFLTSFYTKYDQIHFVLNTVSLMSVLIPKLPQLHGVRIFGI
NKY

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FIGURE 4805

GAATTCGCGGCCGCTGGTTTGCAGCTGCTCCGTCATCGTGCGGCCCGACGCTATCTCGCGCTCGTGTGCAGGCCC
GGCTCGGCTCCTGGTCCCCGGTGCGAGGGTTAACGCGAGGCCCCGGCCTCGGTCCCCGGACTAGGCCGTGACCCC
GGGTGCC**ATG**AAGCAGGAGGGCTCGGCGCGGCGCCGCGGCGCGGACAAGGCGAAACCGCCGCCCGGCGGAGGAGA
ACAAGAACCCCCACCGCCGCCGGCCCCCCAGGATGTGGAGATGAAAGAGGAGGCAGCGACGGGTGGCGGGTCAAC
GGGGGAGGCAGACGGCAAGACGGCGGCGGCAGCGGTTGAGCACTCCCAGCGAGAGCTGGACACAGTCACCTTGGA
GGACATCAAGGAGCACGTGAAACAGCTAGAGAAAGCGGTTTCAGGCAAGGAGCCGAGATTCGTGCTGCGGGCCCT
GCGGATGCTGCCTTCCACATCACGCCGCCTCAACCACTATGTTCTGTATAAGGCTGTGCAGGGCTTCTTCACTTC
AAATAATGCCACTCGAGACTTTTTGCTCCCCTTCCTGGAAGAGCCCATGGACACAGAGGCTGATTTACAGTTCCG
TCCCCGCACGGGAAAAGCTGCGTCGACACCCCTCCTGCCTGAAGTGGAAGCCTATCTCCAACTCCTCGTGGTCAT
CTTCATGATGAACAGCAAGCGCTACAAAGAGGCACAGAAGATCTCTGATGATCTGATGCAGAAGATCAGTACTCA
GAACCGCCGGGCCCTAGACCTTGTAGCCGCAAAGTGTTACTATTATCACGCCCGGGTCTATGAGTTCCTGGACAA
GCTGGATGTGGTGCGCAGCTTCTTGCATGCTCGGCTCCGGACAGCTACGCTTCGGCATGACGCAGACGGGCAGGC
CACCCTGTTGAACCTCCTGCTGCGGAATTACCTACACTACAGCTTGTACGACCAGGCTGAGAAGCTGGTGTCCAA
GTCTGTGTTCCCAGAGCAGGCCAACAACAATGAGTGGGCCAGGTACCTCTACTACACAGGGCGAATCAAAGCCAT
CCAGCTGGAGTACTCAGAGGCCCGGAGAACGATGACCAACGCCCTTCGCAAGGCCCCTCAGCACACAGCTGTCGG
CTTCAAACAGACGGTGCACAAGCTTCTCATCGTGGTGGAGCTGTTGCTGGGGGAGATCCCTGACCGGCTGCAGTT
CCGCCAGCCCTCCCTCAAGCGCTCACTCATGCCCTATTTCCTTCTGACTCAAGCTGTCAGGACAGGAAACCTAGC
CAAGTTCAACCAGGTCCTGGATCAGTTTGGGGAGAAGTTTCAAGCAGATGGGACCTACACCCTAATTATCCGGCT
GCGGCACAACGTGATTAAGACAGGTGTACGCATGATCAGCCTCTCCTATTCCCGAATCTCCTTGGCTGACATCGC
CCAGAAGCTGCAGTTGGATAGCCCCGAAGATGCAGAGTTCATTGTTGCCAAGGCCATCCGGGATGGTGTCATTGA
GGCCAGCATCAACCACGAGAAGGGCTATGTCCAATCCAAGGAGATGATTGACATCTATTCCACCCGAGAGCCCCA
GCTAGCCTTCCACCAGCGCATCTCCTTCTGCCTAGATATCCACAACATGTCTGTCAAGGCCATGAGGTTTCCTCC
CAAATCGTACAACAAGGACTTGGAGTCTGCAGAGGAACGGCGTGAGCGAGAACAGCAGGACTTGGAGTTTGCCAA
GGAGATGGCAGAAGATGATGATGACAGCTTCCCT**TGA**CTGGGGGGCTGGGGAGGGGTAGGGGGAATGGGGACAG
GCTCTTTCCCCCTTGGGGGTCCCCTGCCCAGGGCACTGTCCCCATTTTCCCACACACAGCTCATATGCTGCATTC
GTGCAGGGGGTGGGGGTGCTGGGAGCCAGCCACCCTGACCTCCCCCAGGGCTCCTCCCCAGCCGGTGACTTACTG
TACAGCAGGCAGGAGGGTGGGCAGGCAACCTCCCCGGGCAGGGTCCTGGCCAGCAGTGTGGGAGCAGGAGGGGAA
GGATAGTTCTGTGTACTCCTTTAGGGAGTGGGGGACTAGAACTGGGATGTCTTGGCTTGTATGTTTTTTGAAGCT
TCGATTATGATTTTTAAACAATAAAAAGTTCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGCGGCCGCGAAT
TC

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FIGURE 4806

MKQEGSARRRGADKAKPPPGGGEQEPPPPPAPQDVEMKEEAATGGGSTGEADGKTAAAAVEHSQRELDTVTLEDI
KEHVKQLEKAVSGKEPRFVLRALRMLPSTSRRLNHYVLYKAVQGFFTSNNATRDFLLPFLEEPMDTEADLQFRPR
TGKAASTPLLPEVEAYLQLLVVIFMMNSKRYKEAQKISDDLMQKISTQNRRALDLVAAKCYYYHARVYEFLDKLD
VVRSFLHARLRTATLRHDADGQATLLNLLLRNYLHYSLYDQAEKLVSKSVFPEQANNNEWARYLYYTGRIKAIQL
EYSEARRTMTNALRKAPQHTAVGFKQTVHKLLIVVELLLGEIPDRLQFRQPSLKRSLMPYFLLTQAVRTGNLAKF
NQVLDQFGEKFQADGTYTLIIRLRHNVIKTGVRMISLSYSRISLADIAQKLQLDSPEDAEFIVAKAIRDGVIEAS
INHEKGYVQSKEMIDIYSTREPQLAFHQRISFCLDIHNMSVKAMRFPPKSYNKDLESAEERREREQQDLEFAKEM
AEDDDDSFP

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FIGURE 4807

CTCCTCTCCAGCCCTTCTCCTGTGTGCCTGCCTCCTGCCGCCGCCACC**ATG**ACCACCTCCATCCGCCAGTTCACC
TCCTCCAGCTCCATCAAGGGCTCCTCCGGCCTGGGGGGCGGCTCGTCCCGCACCTCCTGCCGGCTGTCTGGCGGC
CTGGGTGCCGGCTCCTGCAGGCTGGGATCTGCTGGCGGCCTGGGCAGCACCCTCGGGGGTAGCAGCTACTCCAGC
TGCTACAGCTTTGGCTCTGGTGGTGGCTATGGCAGCAGCTTTGGGGGTGTTGATGGGCTGCTGGCTGGAGGTGAG
AAGGCCACCATGCAGAACCTCAATGACCGCCTGGCCTCCTACCTGGACAAGGTGCGTGCCCTGGAGGAGGCCAAC
ACTGAGCTGGAGGTGAAGATCCGTGACTGGTACCAGAGGCAGGCCCCGGGGCCCGCCCGTGACTACAGCCAGTAC
TACAGGACAATTGAGGAGCTGCAGAACAAGATCCTCACAGCCACCGTGGACAATGCCAACATCCTGCTACAGATT
GACAATGCCCGTCTGGCTGCTGATGACTTCCGCACCAAGTTTGAGACAGAGCAGGCCCTGCGCCTGAGTGTGGAG
GCCGACATCAATGGCCTGCGCAGGGTGCTGGATGAGCTGACCCTGGCCAGAGCCGACCTGGAGATGCAGATTGAG
AACCTCAAGGAGGAGCTGGCCTACCTGAAGAAGAACCACGAGGAGGAGATGAACGCCCTGCGAGGCCAGGTGGGT
GGTGAGATCAATGTGGAGATGGACGCTGCCCCAGGCGTGGACCTGAGCCGCATCCTCAACGAGATGCGTGACCAG
TATGAGAAGATGGCAGAGAAGAACCGCAAGGATGCCGAGGATTGGTTCTTCAGCAAGACAGAGGAACTGAACCGC
GAGGTGGCCACCAACAGTGAGCTGGTGCAGAGTGGCAAGAGTGAGATCTCGGAGCTCCGGCGCACCATGCAGGCC
TTGGAGATAGAGCTGCAGTCCCAGCTCAGCATGAAAGCATCCCTGGAGGGCAACCTGGCGGAGACAGAGAACCGC
TACTGCGTGCAGCTGTCCCAGATCCAGGGGCTGATTGGCAGCGTGGAGGAGCAGCTGGCCCAGCTTCGCTGCGAG
ATGGAGCAGCAGAACCAGGAATACAAAATCCTGCTGGATGTGAAGACGCGGCTGGAGCAGGAGATTGCCACCTAC
CGCCGCCTGCTGGAGGGAGAGGATGCCCACCTGACTCAGTACAAGAAAGAACCGGTGACCACCCGTCAGGTGCGT
ACCATTGTGGAAGAGGTCCAGGATGGCAAGGTCATCTCCTCCCGCGAGCAGGTCCACCAGACCACCCGC**TGA**GGA
CTCAGCTACCCCGGCCGGCCACCCAGGAGGCAGGGAGCAGCCGCCCCATCTGCCCCACAGTCTCCGGCCTCTCCA
GCCTCAGCCCCCTGCTTCAGTCCCTTCCCCATGCTTCCTTGCCTGATGACAATAAAGCTTGTTGACTCAGCTAAA
AAAAAAAAAAA

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FIGURE 4808

MTTSIRQFTSSSSIKGSSGLGGGSSRTSCRLSGGLGAGSCRLGSAGGLGSTLGGSSYSSCYSFGSGGGYGSSFGG
VDGLLAGGEKATMQNLNDRLASYLDKVRALEEANTELEVKIRDWYQRQAPGPARDYSQYYRTIEELQNKILTATV
DNANILLQIDNARLAADDFRTKFETEQALRLSVEADINGLRRVLDELTLARADLEMQIENLKEELAYLKKNHEEE
MNALRGQVGGEINVEMDAAPGVDLSRILNEMRDQYEKMAEKNRKDAEDWFFSKTEELNREVATNSELVQSGKSEI
SELRRTMQALEIELQSQLSMKASLEGNLAETENRYCVQLSQIQGLIGSVEEQLAQLRCEMEQQNQEYKILLDVKT
RLEQEIATYRRLLEGEDAHLTQYKKEPVTTRQVRTIVEEVQDGKVISSREQVHQTTR

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FIGURE 4809

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ATGACCACCTGCAGCCGCCAGTTCACCTCCTCCAGCTCCATGAAGGGCTCCTGCGGCATCGGAGGCGGCATCGGG
GGCGGCTCCAGCCGCATCTCCTCCGTCCTGGCCGGAGGGTCCTGCCGTGCCCCCAGCACCTACGGGGGCGGCCTG
TCTGTCTCCTCTCGCTTCTCCTCTGGGGGAGCCTGCGGGCTGGGGGGCGGCTATGGCGGTGGCTTCAGCAGCAGC
AGCAGCTTTGGTAGTGGCTTCGGGGGAGGATATGGTGGTGGCCTTGGTGCTGGCTTCGGTGGTGGCTTGGGTGCT
GGCTTTGGTGGTGGTTTTGCTGGTGGTGATGGGCTTCTGGTGGGCAGTGAGAAGGTGACCATGCAGAACCTCAAT
GACCGCCTGGCCTCCTACCTGGACAAGGTGCGTGCTCTGGAGGAGGCCAACGCCGACCTGGAAGTGAAGATCCGT
GACTGGTACCAGAGGCAGCGGCCCAGTGAGATCAAAGACTACAGTCCCTACTTCAAGACCATCGAGGACCTGAGG
AACAAGATCATTGCGGCCACCATTGAGAATGCGCAGCCCATTTTGCAGATTGACAATGCCAGGCTGGCAGCCGAT
GACTTCAGGACCAAGTATGAGCACGAACTGGCCCTGCGGCAGACTGTGGAGGCCGACGTCAATGGCCTGCGCCGG
GTGTTGGATGAGCTGACCCTGGCCAGGACTGACCTGGAGATGCAGATCGAAGGCCTGAAGGAGGAGCTGGCCTAC
CTGAGGAAGAACCACGAGGAGGAGATGCTTGCTCTGAGAGGTCAGACCGGCGGAGATGTGAACGTGGAGATGGAT
GCTGCACCTGGCGTGGACCTGAGCCGCATCCTGAATGAGATGCGTGACCAGTACGAGCAGATGGCAGAGAAAAAC
CGCAGAGACGCTGAGACCTGGTTCCTGAGCAAGACCGAGGAGCTGAACAAAGAAGTGGCCTCCAACAGCGAACTG
GTACAGAGCAGCCGCAGTGAGGTGACGGAGCTCCGGAGGGTGCTCCAGGGCCTGGAGATTGAGCTGCAGTCCCAG
CTCAGCATGAAAGCATCCCTGGAGAACAGCCTGGAGGAGACCAAAGGCCGCTACTGCATGCAGCTGTCCCAGATC
CAGGGACTGATTGGCAGTGTGGAGGAGCAGCTGGCCCAGCTACGCTGTGAGATGGAGCAGCAGAGCCAGGAGTAC
CAGATCTTGCTGGATGTGAAGACGCGGCTGGAGCAGGAGATTGCCACCTACCGCCGCCTGCTGGAGGGCGAGGAT
GCCCACCTTTCCTCCCAGCAAGCATCTGGCCAATCCTATTCTTCCCGCGAGGTCTTCACCTCCTCCTCGTCCTCT
TCGAGCCGTCAGACCCGGCCCATCCTCAAGGAGCAGAGCTCATCCAGCTTCAGCCAGGGCCAGAGCTCCTAG
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FIGURE 4810

CGGGGGGTTGCTCCGTCCGTGCTCCGCCTCGCC**ATG**ACTTCCTACAGCTATCGCCAGTCGTCGGCCACGTCGTCCT
TCGGAGGCCTGGGCGGCGGCTCCGTGCGTTTTGGGCCGGGGGTCGCTTTTCGCGCGCCCAGCATTCACGGGGGCT
CCGGCGGCCGCGGCGTATCCGTGTCCTCCGCCCGCTTTGTGTCCTCGTCCTCCTCGGGGGGCTACGGCGGCGGCT
ACGGCGGCGTCCTGACCGCGTCCGACGGGCTGCTGGCGGGCAACGAGAAGCTAACCATGCAGAACCTCAACGACC
GCCTGGCCTCCTACCTGGACAAGGTGCGCGCCCTGGAGGCGGCCAACGGCGAGCTAGAGGTGAAGATCCGCGACT
GGTACCAGAAGCAGGGGCCTGGGCCCTCCCGCGACTACAGCCACTACTACACGACCATCCAGGACCTGCGGGACA
AGATTCTTGGTGCCACCATTGAGAACTCCAGGATTGTCCTGCAGATCGACAACGCCCGTCTGGCTGCAGATGACT
TCCGAACCAAGTTTGAGACGGAACAGGCTCTGCGCATGAGCGTGGAGGCCGACATCAACGGCCTGCGCAGGGTGC
TGGATGAGCTGACCCTGGCCAGGACCGACCTGGAGATGCAGATCGAAGGCCTGAAGGAAGAGCTGGCCTACCTGA
AGAAGAACCATGAGGAGGAAATCAGTACGCTGAGGGGCCAAGTGGGAGGCCAGGTCAGTGTGGAGGTGGATTCCG
CTCCGGGCACCGATCTCGCCAAGATCCTGAGTGACATGCGAAGCCAATATGAGGTCATGGCCGAGCAGAACCGGA
AGGATGCTGAAGCCTGGTTCACCAGCCGGACTGAAGAATTGAACCGGGAGGTCGCTGGCCACACGGAGCAGCTCC
AGATGAGCAGGTCCGAGGTTACTGACCTGCGGCGCACCCTTCAGGGTCTTGAGATTGAGCTGCAGTCACAGCTGA
GCATGAAAGCTGCCTTGGAAGACACACTGGCAGAAACGGAGGCGCGCTTTGGAGCCCAGCTGGCGCATATCCAGG
CGCTGATCAGCGGTATTGAAGCCCAGCTGGCGGATGTGCGAGCTGATAGTGAGCGGCAGAATCAGGAGTACCAGC
GGCTCATGGACATCAAGTCGCGGCTGGAGCAGGAGATTGCCACCTACCGCAGCCTGCTCGAGGGACAGGAAGATC
ACTACAACAATTTGTCTGCCTCCAAGGTCCTC**TGA**GGCAGCAGGCTCTGGGGCTTCTGCTGTCCTTTGGAGGGTG
TCTTCTGGGTAGAGGGATGGGAAGGAAGGGACCCTTACCCCCGGCTCTTCTCCTGACCTGCCAATAAAAATTTAT
GGTCCAAGGG

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FIGURE 4811

MTSYSYRQSSATSSFGGLGGGSVRFGPGVAFRAPSIHGGSGGRGVSVSSARFVSSSSSGGYGGGYGGVLTASDGL
LAGNEKLTMQNLNDRLASYLDKVRALEAANGELEVKIRDWYQKQGPGPSRDYSHYYTTIQDLRDKILGATIENSR
IVLQIDNARLAADDFRTKFETEQALRMSVEADINGLRRVLDELTLARTDLEMQIEGLKEELAYLKKNHEEEISTL
RGQVGGQVSVEVDSAPGTDLAKILSDMRSQYEVMAEQNRKDAEAWFTSRTEELNREVAGHTEQLQMSRSEVTDLR
RTLQGLEIELQSQLSMKAALEDTLAETEARFGAQLAHIQALISGIEAQLADVRADSERQNQEYQRLMDIKSRLEQ
EIATYRSLLEGQEDHYNNLSASKVL

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FIGURE 4812

GGTACCTCCTGCCAGCACCTCTTGGGTTTGCTGAGAACTCACGGGCTCCAGCTACCTGGCC**ATG**ACCACCACATT
TCTGCAAACTTCTTCCTCCACCTTTGGGGGTGGCTCAACCCGAGGGGGTTCCCTCCTGGCTGGGGGAGGTGGCTT
TGGTGGGGGGAGTCTCTCTGGGGGAGGTGGAAGCCGAAGTATCTCAGCTTCTTCTGCTAGGTTTGTCTCTTCAGG
GTCAGGAGGAGGATATGGGGGTGGCATGAGGGTCTGTGGCTTTGGTGGAGGGGCTGGTAGTGTTTTCGGTGGAGG
CTTTGGAGGGGGCGTTGGTGGGGGTTTTGGTGGTGGCTTTGGTGGTGGCGATGGTGGTCTCCTCTCTGGCAATGA
GAAAATTACCATGCAGAACCTCAATGACCGCCTGGCCTCCTACCTGGACAAGGTACGTGCCCTGGAGGAGGCCAA
TGCTGACCTGGAGGTGAAGATCCATGACTGGTACCAGAAGCAGACCCCAGCCAGCCCAGAATGCGACTACAGCCA
ATACTTCAAGACCATTGAAGAGCTCCGGGACAAGATCATGGCCACCACCATCGACAACTCCCGGGTCATCCTGGA
GATCGACAATGCCAGGCTGGCTGCGGACGACTTCAGGCTCAAGTATGAGAATGAGCTGGCCCTGCGCCAGGGCGT
TGAGGCTGACATCAACGGCTTGCGCCGAGTCCTGGATGAGCTGACCCTGGCCAGGACTGACCTGGAGATGCAGAT
CGAGGGCCTGAATGAGGAGCTAGCCTACCTGAAGAAGAACCACGAAGAGGAGATGAAGGAGTTCAGCAGCCAGCT
GGCCGGCCAGGTCAATGTGGAGATGGACGCAGCACCGGGTGTGGACCTGACCCGTGTGCTGGCAGAGATGAGGGA
GCAGTACGAGGCCATGGCGGAGAAGAACCGCCGGGATGTCGAGGCCTGGTTCTTCAGCAAGACTGAGGAGCTGAA
CAAAGAGGTGGCCTCCAACACAGAAATGATCCAGACCAGCAAGACGGAGATCACAGACCTGAGACGCACGATGCA
GGAGCTGGAGATCGAGCTGCAGTCCCAGCTCAGCATGAAAGCTGGGCTGGAGAACTCACTGGCCGAGACAGAGTG
CCGCTATGCCACGCAGCTGCAGCAGATCCAGGGGCTCATTGGTGGCCTGGAGGCCCAGCTGAGTGAGCTCCGATG
CGAGATGGAGGCTCAGAACCAGGAGTACAAGATGCTGCTTGACATAAAGACACGGCTGGAGCAGGAGATCGCTAC
TTACCGCAGCCTGCTCGAGGGCCAGGATGCCAAGATGGCTGGCATTGGCATCAGGGAAGCCTCTTCAGGAGGTGG
TGGTAGCAGCAGCAATTTCCACATCAATGTAGAAGAGTCAGTGGATGGACAGGTGGTTTCTTCCCACAAGAGAGA
AATC**TAA**GTGTCTATTGCAGGAGAAACGTCCCTTGCCACTCCCCACTCTCATCAGGCCAAGTGGAGGACTGGCCA
GAGGGCCTGCACATGCAAACTCCAGTCCCTGCCTTCAGAGAGCTGAAAAGGGTCCCTCGGTCTTTTATTTCAGGG
CTTTGCATGCGCTCTATTCCCCCTCTGCCTCTCCCCACCTTCTTTGGAGCAAGGAGATGCAGCTGTATTGTGTAA
CAAGCTCATTTGTACAGTGTCTGTTCATGTAATAAAGAATTACTTTTCCTTTTGCAAAT

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FIGURE 4813

MTTTFLQTSSSTFGGGSTRGGSLLAGGGGFGGGSLSGGGGSRSISASSARFVSSGSGGGYGGGMRVCGFGGGAGS
VFGGGFGGGVGGGFGGGFGGGDGGLLSGNEKITMQNLNDRLASYLDKVRALEEANADLEVKIHDWYQKQTPASPE
CDYSQYFKTIEELRDKIMATTIDNSRVILEIDNARLAADDFRLKYENELALRQGVEADINGLRRVLDELTLARTD
LEMQIEGLNEELAYLKKNHEEEMKEFSSQLAGQVNVEMDAAPGVDLTRVLAEMREQYEAMAEKNRRDVEAWFFSK
TEELNKEVASNTEMIQTSKTEITDLRRTMQELEIELQSQLSMKAGLENSLAETECRYATQLQQIQGLIGGLEAQL
SELRCEMEAQNQEYKMLLDIKTRLEQEIATYRSLLEGQDAKMAGIGIREASSGGGGSSSNFHINVEESVDGQVVS
SHKREI

FIGURE 4814

GGCCAAGCAAGCTTCTATCTGCACCTGCTCTCAATCCTGCTCTCACC**ATG**AGCCTCCGCCTGCAGAGCTCCTCTG
CCAGCTATGGAGGTGGTTTCGGGGGTGGCTCTTGCCAGCTGGGAGGAGGCCGTGGTGTCTCTACCTGTTCAACTC
GGTTTGTGTCTGGGGGATCAGCTGGGGGCTATGGAGGCGGCGTGAGCTGTGGTTTTGGTGGAGGGGCTGGTAGTG
GCTTTGGAGGTGGCTATGGAGGTGGCCTTGGAGGTGGCTATGGAGGTGGCCTTGGAGGTGGCTTTGGTGGGGGTT
TTGCTGGTGGCTTTGTTGACTTTGGTGCTTGTGATGGCGGCCTCCTCACTGGCAATGAGAAGATCACCATGCAGA
ACCTCAACGACCGCCTGGCTTCCTACCTGGAGAAGGTGCGCGCCCTGGAGGAGGCCAACGCTGACCTGGAGGTGA
AGATCCGTGACTGGCACCTGAAGCAGAGCCCAGCTAGCCCTGAGCGGGACTACAGCCCCTACTACAAGACCATTG
AAGAGCTCCGGGACAAGATCCTGACCGCCACCATTGAAAACAACCGGGTCATCCTGGAGATTGACAATGCCAGGC
TGGCTGTGGACGACTTCAGGCTCAAGTATGAGAATGAGCTGGCCCTGCGCCAGAGCGTGGAGGCCGACATCAACG
GCCTGCGCCGGGTGCTGGATGAGCTCACTCTGTCTAAGACTGACCTGGAGATGCAGATCGAGAGCCTGAATGAAG
AGCTAGCCTACATGAAGAAGAACCATGAAGAGGAGATGAAGGAATTTAGCAACCAGGTGGTCGGCCAGGTCAACG
TGGAGATGGATGCCACCCCAGGCATTGACCTGACCCGCGTGCTGGCAGAGATGAGGGAGCAGTACGAGGCCATGG
CAGAGAGGAACCGCCGGGATGCTGAGGAATGGTTCCACGCCAAGAGTGCAGAGCTGAACAAGGAGGTGTCTACCA
ACACTGCCATGATTCAGACCAGCAAGACAGAGATCACGGAGCTCAGGCGCACGCTCCAAGGCCTGGAGATTGAGC
TGCAGTCCCAGCTGAGCATGAAAGCGGGGCTGGAGAACACGGTGGCAGAGACGGAGTGCCGCTATGCCCTGCAGC
TGCAGCAGATCCAGGGACTCATCAGCAGCATCGAGGCCCAGCTGAGCGAGCTCCGCAGTGAGATGGAGTGCCAGA
ACCAAGAGTACAAGATGCTGCTGGACATCAAGACACGTCTGGAGCAGGAGATCGCCACCTACCGCAGCCTGCTCG
AGGGCCAGGACGCCAAGAAGCGTCAGCCCCCG**TAG**CACCTCTGTTACCACGACTTCTAGTGCCTCTGTTACCACC
ACCTCTAATGCCTCTGGTCGCCGCACTTCTGATGTCCGTAGGCCTTAAATCTGCCTGGCGTCCCCTCCCTCTGTC
TTCAGCACCCAGAGGAGGAGAGAGCCGGCAGTTCCCTGCAGGAGAGAGGAGGGGCTGCTGGACCCAAGGCTCAGT
CCCTCTGCTCTCAGGACCCCCTGTCCTGACTCTCTCCTGATGGTGGGCCCTCTGTGCTCTTCTCTTCCGGTCGGA
TCTCTCTCCTCTCTGACCTGGATACGCTTTGGTTTCTCAACTTCTCTACCCCAAAGAAAAGATTATTCAATAAAG
TTTCCTGCCTTTCTGCAAACATAAAAA

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FIGURE 4815

MSLRLQSSSASYGGGFGGGSCQLGGGRGVSTCSTRFVSGGSAGGYGGGVSCGFGGGAGSGFGGGYGGGLGGGYGG
GLGGGFGGGFAGGFVDFGACDGGLLTGNEKITMQNLNDRLASYLEKVRALEEANADLEVKIRDWHLKQSPASPER
DYSPYYKTIEELRDKILTATIENNRVILEIDNARLAVDDFRLKYENELALRQSVEADINGLRRVLDELTLSKTDL
EMQIESLNEELAYMKKNHEEEMKEFSNQVVGQVNVEMDATPGIDLTRVLAEMREQYEAMAERNRRDAEEWFHAKS
AELNKEVSTNTAMIQTSKTEITELRRTLQGLEIELQSQLSMKAGLENTVAETECRYALQLQQIQGLISSIEAQLS
ELRSEMECQNQEYKMLLDIKTRLEQEIATYRSLLEGQDAKKRQPP

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FIGURE 4816

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ACCCGAGCACCTTCTCTTCACTCAGCCAACTGCTCGCTCGCTCACCTCCCTCCTCTGCACCATGACTACCTGCAG
CCGCCAGTTCACCTCCTCCAGCTCCATGAAGGGCTCCTGCGGCATCGGGGGCGGCATCGGGGGCGGCTCCAGCCG
CATCTCCTCCGTCCTGGCCGGAGGGTCCTGCCGCGCCCCCAGCACCTACGGGGGCGGCCTGTCTGTCTCATCCTC
CCGCTTCTCCTCTGGGGGAGCCTACGGGCTGGGGGGCGGCTATGGCGGTGGCTTCAGCAGCAGCAGCAGCAGCTT
TGGTAGTGGCTTTGGGGGAGGATATGGTGGTGGCCTTGGTGCTGGCTTGGGTGGTGGCTTTGGTGGTGGCTTTGC
TGGTGGTGATGGGCTTCTGGTGGGCAGTGAGAAGGTGACCATGCAGAACCTCAATGACCGCCTGGCCTCCTACCT
GGACAAGGTGCGTGCTCTGGAGGAGGCCAACGCCGACCTGGAAGTGAAGATCCGTGACTGGTACCAGAGGCAGCG
GCCTGCTGAGATCAAAGACTACAGTCCCTACTTCAAGACCATTGAGGACCTGAGGAACAAGATTCTCACAGCCAC
AGTGGACAATGCCAATGTCCTTCTGCAGATTGACAATGCCCGTCTGGCCGCGGATGACTTCCGCACCAAGTATGA
GACAGAGTTGAACCTGCGCATGAGTGTGGAAGCCGACATCAATGGCCTGCGCAGGGTGCTGGACGAACTGACCCT
GGCCAGAGCTGACCTGGAGATGCAGATTGAGAGCCTGAAGGAGGAGCTGGCCTACCTGAAGAAGAACCACGAGGA
GGAGATGAATGCCCTGAGAGGCCAGGTGGGTGGAGATGTCAATGTGGAGATGGACGCTGCACCTGGCGTGGACCT
GAGCCGCATTCTGAACGAGATGCGTGACCAGTATGAGAAGATGGCAGAGAAGAACCGCAAGGATGCCGAGGAATG
GTTCTTCACCAAGACAGAGGAGCTGAACCGCGAGGTGGCCACCAACAGCGAGCTGGTGCAGAGCGGCAAGAGCGA
GATCTCGGAGCTCCGGCGCACCATGCAGAACCTGGAGATTGAGCTGCAGTCCCAGCTCAGCATGAAAGCATCCCT
GGAGAACAGCCTGGAGGAGACCAAAGGTCGCTACTGCATGCAGCTGGCCCAGATCCAGGAGATGATTGGCAGCGT
GGAGGAGCAGCTGGCCCAGCTCCGCTGCGAGATGGAGCAGCAGAACCAGGAGTACAAGATCCTGCTGGACGTGAA
GACGCGGCTGGAGCAGGAGATCGCCACCTACCGCCGCCTGCTGGAGGGCGAGGACGCCCACCTCTCCTCCTCCCA
GTTCTCCTCTGGATCGCAGTCATCCAGAGATGTGACCTCCTCCAGCCGCCAAATCCGCACCAAGGTCATGGATGT
GCACGATGGCAAGGTGGTGTCCACCCACGAGCAGGTCCTTCGCACCAAGAACTGAGGCTGCCCAGCCCCGCTCAG
GCCTAGGAGGCCCCCCGTGTGGACACAGATCCCACTGGAAGATCCCCTCTCCTGCCCAAGCACTTCACAGCTGGA
CCCTGCTTCACCCTCACCCCCTCCTGGCAATCAATACAGCTTCATTATCTGAGTTGCAT
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FIGURE 4817

MTTCSRQFTSSSSMKGSCGIGGGIGGGSSRISSVLAGGSCRAPSTYGGGLSVSSSRFSSGGAYGLGGGYGGGFSS
SSSSFGSGFGGGYGGGLGAGLGGGFGGGFAGGDGLLVGSEKVTMQNLNDRLASYLDKVRALEEANADLEVKIRDW
YQRQRPAEIKDYSPYFKTIEDLRNKILTATVDNANVLLQIDNARLAADDFRTKYETELNLRMSVEADINGLRRVL
DELTLARADLEMQIESLKEELAYLKKNHEEEMNALRGQVGGDVNVEMDAAPGVDLSRILNEMRDQYEKMAEKNRK
DAEEWFFTKTEELNREVATNSELVQSGKSEISELRRTMQNLEIELQSQLSMKASLENSLEETKGRYCMQLAQIQE
MIGSVEEQLAQLRCEMEQQNQEYKILLDVKTRLEQEIATYRRLLEGEDAHLSSSQFSSGSQSSRDVTSSSRQIRT
KVMDVHDGKVVSTHEQVLRTKN

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FIGURE 4818

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AGCCCCCTGCCCCTCGCCGCCCGCCGCCTGCCTGGGCCGGGCCGAGGATGCGGCGCAGCGCCTCGGCGGCCAGGC
TTGCTCCCCTCCGGCACGCCTGCTAACTTCCCCCGCTACGTCCCCGTTCGCCCGCCGGGCCGCCCCGTCTCCCCG
CGCCCTCCGGGTCGGGTCCTCCAGGAGCGCCAGGCGCTGCCGCCGTGTGCCCTCCGCCGCTCGCCCGCGCGCCCG
CGCTCCCCGCCTGCGCCCAGCGCCCCGCGCCCGCGCCCAGTCCTCGGGCGGTCATGCTGCCCCTCTGCCTCGTGG
CCGCCCTGCTGCTGGCCGCCGGGCCCGGGCCGAGCCTGGGCGACGAAGCCATCCACTGCCCGCCCTGCTCCGAGG
AGAAGCTGGCGCGCTGCCGCCCCCCCGTGGGCTGCGAGGAGCTGGTGCGAGAGCCGGGCTGCGGCTGTTGCGCCA
CTTGCGCCCTGGGCTTGGGGATGCCCTGCGGGGTGTACACCCCCCGTTGCGGCTCGGGCCTGCGCTGCTACCCGC
CCCGAGGGGTGGAGAAGCCCCTGCACACACTGATGCACGGGCAAGGCGTGTGCATGGAGCTGGCGGAGATCGAGG
CCATCCAGGAAAGCCTGCAGCCCTCTGACAAGGACGAGGGTGACCACCCCAACAACAGCTTCAGCCCCTGTAGCG
CCCATGACCGCAGGTGCCTGCAGAAGCACTTCGCCAAAATTCGAGACCGGAGCACCAGTGGGGGCAAGATGAAGG
TCAATGGGGCGCCCCGGGAGGATGCCCGGCCTGTGCCCCAGGGCTCCTGCCAGAGCGAGCTGCACCGGGCGCTGG
AGCGGCTGGCCGCTTCACAGAGCCGCACCCACGAGGACCTCTACATCATCCCCATCCCCAACTGCGACCGCAACG
GCAACTTCCACCCCAAGCAGTGTCACCCAGCTCTGGATGGGCAGCGTGGCAAGTGCTGGTGTGTGGACCGGAAGA
CGGGGGGTGAAGCTTCCGGGGGGCCTGGAGCCAAAGGGGGAGCTGGACTGCCACCAGCTGGCTGACAGCTTTCGAG
AGTGAGGCCTGCCAGCAGGCCAGGGACTCAGCGTCCCCTGCTACTCCTGTGCTCTGGAGGCTGCAGAGCTGACCC
AGAGTGGAGTCTGAGTCTGAGTCCTGTCTCTGCCTGCGGCCCAGAAGTTTCCCTCAAATGCGCGTGTGCACGTGT
GCGTGTGCGTGCGTGTGTGTGTGTTTGTGAGCATGGGTGTGCCCTTGGGGTAAGCCAGAGCCTGGGGTGTTCTCT
TTGGTGTTACACAGCCCAAGAGGACTGAGACTGGCACTTAGCCCAAGAGGTCTGAGCCCTGGTGTGTTTCCAGAT
CGATCCTGGATTCACTCACTCACTCATTCCTTCACTCATCCAGCCACCTAAAAACATTTACTGACCATGTACTAC
GTGCCAGCTCTAGTTTTCAGCCTTGGGAGGTTTTATTCTGACTTCCTCTGATTTTGGCATGTGGAGACACTCCTA
TAAGGAGAGTTCAAGCCTGTGGGAGTAGAAAAATCTCATTCCCAGAGTCAGAGGAGAAGAGACATGTACCTTGAC
CATCGTCCTTCCTCTCAAGCTAGCCAGAGGGTGGGAGCCTAAGGAAGCGTGGGGTAGCAGATGGAGTAATGGTCA
CGAGGTCCAGACCCACTCCCAAAGCTCAGACTTGCCAGGCTCCCTTTCTCTTCTTCCCCAGGTCCTTCCTTTAGG
TCTGGTTGTTGCACCATCTGCTTGGTTGGCTGGCAGCTGAGAGCCCTGCTGTGGGAGAGCGAAGGGGGTCAAAGG
AAGACTTGAAGCACAGAGGGCTAGGGAGGTGGGGTACATTTCTCTGAGCAGTCAGGGTGGGAAGAAAGAATGCAA
GAGTGGACTGAATGTGCCTAATGGAGAAGACCCACGTGCTAGGGGATGAGGGGCTTCCTGGGTCCTGTTCCCTAC
CCCATTTGTGGTCACAGCCATGAAGTCACCGGGATGAACCTATCCTTCCAGTGGCTCGCTCCCTGTAGCTCTGCC
TCCCTCTCCATATCTCCTTCCGCTACACCTCCCTCCCCACACCTCCCTACTCCCCTGGGCATCTTCTGGCTTGAC
TGGATGGAAGGAGACTTAGGAACCTACCAGTTGGCCATGATGTCTTTTCTT
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FIGURE 4819A

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CCCTTCACGACCGTCACCATGGAAGTGTCACCATTGCAGCCTGTAAATGAAAATATGCAAGTCAACAAAATAAAG
AAAAATGAAGATGCTAAGAAAAGACTGTCTGTTGAAAGAATCTATCAAAAGAAAACACAATTGGAACATATTTTG
CTCCGCCCAGACACCTACATTGGTTCTGTGGAATTAGTGACCCAGCAAATGTGGGTTTACGATGAAGATGTTGGC
ATTAACTATAGGGAAGTCACTTTTGTTCCTGGTTTGTACAAAATCTTTGATGAGATTCTAGTTAATGCTGCGGAC
AACAAACAAAGGGACCCAAAAATGTCTTGTATTAGAGTCACAATTGATCCGGAAAACAATTTAATTAGTATATGG
AATAATGGAAAAGGTATTCCTGTTGTTGAACACAAAGTTGAAAAGATGTATGTCCCAGCTCTCATATTTGGACAG
CTCCTAACTTCTAGTAACTATGATGATGATGAAAAGAAAGTGACAGGTGGTCGAAATGGCTATGGAGCCAAATTG
TGTAACATATTCAGTACCAAATTTACTGTGGAAACAGCCAGTAGAGAATACAAGAAAATGTTCAAACAGACATGG
ATGGATAATATGGGAAGAGCTGGTGAGATGGAACTCAAGCCCTTCAATGGAGAAGATTATACATGTATCACCTTT
CAGCCTGATTTGTCTAAGTTTAAAATGCAAAGCCTGGACAAAGATATTGTTGCACTAATGGTCAGAAGAGCATAT
GATATTGCTGGATCCACCAAAGATGTCAAAGTCTTTCTTAATGGAAATAAACTGCCAGTAAAAGGATTTCGTAGT
TATGTGGACATGTATTTGAAGGACAAGTTGGATGAAACTGGTAACTCCTTGAAAGTAATACATGAACAAGTAAAC
CACAGGTGGGAAGTGTGTTTAACTATGAGTGAAAAAGGCTTTCAGCAAATTAGCTTTGTCAACAGCATTGCTACA
TCCAAGGGTGGCAGACATGTTGATTATGTAGCTGATCAGATTGTGACTAAACTTGTTGATGTTGTGAAGAAGAAG
AACAAGGGTGGTGTTGCAGTAAAAGCACATCAGGTGAAAAATCACATGTGGATTTTTGTAAATGCCTTAATTGAA
AACCCAACCTTTGACTCTCAGACAAAAGAAACATGACTTTACAACCCAAGAGCTTTGGATCAACATGCCAATTG
AGTGAAAAATTTATCAAAGCTGCCATTGGCTGTGGTATTGTAGAAAGCATACTAAACTGGGTGAAGTTTAAGGCC
CAAGTCCAGTTAAACAAGAAGTGTTCAGCTGTAAAACATAATAGAATCAAGGGAATTCCCAAACTCGATGATGCC
AATGATGCAGGGGGCCGAAACTCCACTGAGTGTACGCTTATCCTGACTGAGGGAGATTCAGCCAAAACTTTGGCT
GTTTCAGGCCTTGGTGTGGTTGGGAGAGACAAATATGGGGTTTTCCCTCTTAGAGGAAAAATACTCAATGTTCGA
GAAGCTTCTCATAAGCAGATCATGGAAAATGCTGAGATTAACAATATCATCAAGATTGTGGGTCTTCAGTACAAG
AAAAACTATGAAGATGAAGATTCATTGAAGACGCTTCGTTATGGGAAGATAATGATTATGACAGATCAGGACCAA
GATGGTTCCCACATCAAAGGCTTGCTGATTAATTTTATCCATCACAACTGGCCCTCTCTTCTGCGACATCGTTTT
CTGGAGGAATTTATCACTCCCATTGTAAAGGTATCTAAAAACAAGCAAGAAATGGCATTTTACAGCCTTCCTGAA
TTTGAAGAGTGGAAGAGTTCTACTCCAAATCATAAAAAATGGAAAGTCAAATATTACAAAGGTTTGGGCACCAGC
ACATCAAAGGAAGCTAAAGAATACTTTGCAGATATGAAAAGACATCGTATCCAGTTCAAATATTCTGGTCCTGAA
GATGATGCTGCTATCAGCCTGGCCTTTAGCAAAAAACAGATAGATGATCGAAAGGAATGGTTAACTAATTTCATG
GAGGATAGAAGACAACGAAAGTTACTTGGGCTTCCTGAGGATTACTTGTATGGACAAACTACCACATATCTGACA
TATAATGACTTCATCAACAAGGAACTTATCTTGTTCTCAAATTCTGATAACGAGAGATCTATCCCTTCTATGGTG
GATGGTTTGAAACCAGGTCAGAGAAAGGTTTTGTTTACTTGCTTCAAACGGAATGACAAGCGAGAAGTAAAGGTT
GCCCAATTAGCTGGATCAGTGGCTGAAATGTCTTCTTATCATCATGGTGAGATGTCACTAATGATGACCATTATC
AATTTGGCTCAGAATTTTGTGGGTAGCAATAATCTAAACCTCTTGCAGCCCATTGGTCAGTTTGGTACCAGGCTA
CATGGTGGCAAGGATTCTGCTAGTCCACGATACATCTTTACAATGCTCAGCTCTTTGGCTCGATTGTTATTTCCA
CCAAAAGATGATCACACGTTGAAGTTTTTATATGATGACAACCAGCGTGTTGAGCCTGAATGGTACATTCCTATT
ATTCCCATGGTGCTGATAAATGGTGCTGAAGGAATCGGTACTGGGTGGTCCTGCAAAATCCCCAACTTTGATGTG
CGTGAAATTGTAAATAACATCAGGCGTTTGATGGATGGAGAAGAACCTTTGCCAATGCTTCCAAGTTACAAGAAC
TTCAAGGGTACTATTGAAGAACTGGCTCCAAATCAATATGTGATTAGTGGTGAAGTAGCTATTCTTAATTCTACA
ACCATTGAAATCTCAGAGCTTCCCGTCAGAACATGGACCCAGACATACAAAGAACAAGTTCTAGAACCCATGTTG
AATGGCACCGAGAAGACACCTCCTCTCATAACAGACTATAGGGAATACCATACAGATACCACTGTGAAATTTGTT
GTGAAGATGACTGAAGAAAAACTGGCAGAGGCAGAGAGAGTTGGACTACACAAAGTCTTCAAACTCCAAACTAGT
CTCACATGCAACTCTATGGTGCTTTTTGACCACGTAGGCTGTTTAAAGAAATATGACACGGTGTTGGATATTCTA
AGAGACTTTTTTGAACTCAGACTTAAATATTATGGATTAAGAAAAGAATGGCTCCTAGGAATGCTTGGTGCTGAA
TCTGCTAAACTGAATAATCAGGCTCGCTTTATCTTAGAGAAAATAGATGGCAAAATAATCATTGAAAATAAGCCT
AAGAAAGAATTAATTAAAGTTCTGATTCAGAGGGGATATGATTCGGATCCTGTGAAGGCCTGGAAAGAAGCCCAG
CAAAAGGTTCCAGATGAAGAAGAAATGAAGAGAGTGACAACGAAAAGGAAACTGAAAAGAGTGACTCCGTAACA
GATTCTGGACCAACCTTCAACTATCTTCTTGATATGCCCCTTTGGTATTTAACCAAGGAAAAGAAAGATGAACTC
TGCAGGCTAAGAAATGAAAAAGAACAAGAGCTGGACACATTAAAAAGAAAGAGTCCATCAGATTTGTGGAAAGAA
GACTTGGCTACATTTATTGAAGAATTGGAGGCTGTTGAAGCCAAGGAAAAACAAGATGAACAAGTCGGACTTCCT
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FIGURE 4819B

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GGGAAAGGGGGGAAGGCCAAGGGGAAAAAAACACAAATGGCTGAAGTTTTGCCTTCTCCGCGTGGTCAAAGAGTC
ATTCCACGAATAACCATAGAAATGAAAGCAGAGGCAGAAAAGAAAAATAAAAAGAAAATTAAGAATGAAAATACT
GAAGGAAGCCCTCAAGAAGATGGTGTGGAACTAGAAGGCCTAAAACAAAGATTAGAAAAGAAACAGAAAAGAGAA
CCAGGTACAAAGACAAAGAAACAAACTACATTGGCATTTAAGCCAATCAAAAAAGGAAAGAAGAGAAATCCCTGG
TCTGATTCAGAATCAGATAGGAGCAGTGACGAAAGTAATTTTGATGTCCCTCCACGAGAAACAGAGCCACGGAGA
GCAGCAACAAAAACAAAATTCACAATGGATTTGGATTCAGATGAAGATTTCTCAGATTTTGATGAAAAAACTGAT
GATGAAGATTTTGTCCCATCAGATGCTAGTCCACCTAAGACCAAAACTTCCCCAAAACTTAGTAACAAAGAACTG
AAACCACAGAAAAGTGTCGTGTCAGACCTTGAAGCTGATGATGTTAAGGGCAGTGTACCACTGTCTTCAAGCCCT
CCTGCTACACATTTCCCAGATGAAACTGAAATTACAAACCCAGTTCCTAAAAAGAATGTGACAGTGAAGAAGACA
GCAGCAAAAAGTCAGTCTTCCACCTCCACTACCGGTGCCAAAAAAAGGGCTGCCCCAAAAGGAACTAAAAGGGAT
CCAGCTTTGAATTCTGGTGTCTCTCAAAAGCCTGATCCTGCCAAAACCAAGAATCGCCGCAAAAGGAAGCCATCC
ACTTCTGATGATTCTGACTCTAATTTTGAGAAAATTGTTTCGAAAGCAGTCACAAGCAAGAAATCCAAGGGGGAG
AGTGATGACTTCCATATGGACTTTGACTCAGCTGTGGCTCCTCGGGCAAAATCTGTACGGGCAAAGAAACCTATA
AAGTACCTGGAAGAGTCAGATGAAGATGATCTGTTTTAAAATGTGAGGCGATTATTTTAAGTAATTATCTTACCA
AGCCCAAGACTGGTTTTAAAGTTACCTGAAGCTCTTAACTTCCTCCCCTCTGAATTTAGTTTGGGGAAGGTGTTT
TTAGTACAAGACATCAAAGTGAAGTAAAGCCCAAGTGTTCTTTAGCTTT
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FIGURE 4820

GCCATCTGGGCCCAGGCCCCATGCCCCGAGGAGGGGTGGTCTGAAGCCCACCAGAGCCCCCTGCCAGACTGTCTG
CCTCCCTTCTGACTGTGGCCGCTTGG**ATG**GCCAGCAACAGCAGCTCCTGCCCGACACCTGGGGGCGGGCACCTC
AATGGGTACCCGGTGCCTCCCTACGCCTTCTTCTTCCCCCCTATGCTGGGTGGACTCTCCCCGCCAGGCGCTCTG
ACCACTCTCCAGCACCAGCTTCCAGTTAGTGGATATAGCACACCATCCCCAGCCACCATTGAGACCCAGAGCAGC
AGTTCTGAAGAGATAGTGCCCAGCCCTCCCTCGCCACCCCCTCTACCCCGCATCTACAAGCCTTGCTTTGTCTGT
CAGGACAAGTCCTCAGGCTACCACTATGGGGTCAGCGCCTGTGAGGGCTGCAAGGGCTTCTTCCGCCGCAGCATC
CAGAAGAACATGGTGTACACGTGTCACCGGGACAAGAACTGCATCATCAACAAGGTGACCCGGAACCGCTGCCAG
TACTGCCGACTGCAGAAGTGCTTTGAAGTGGGCATGTCCAAGGAGTCTGTGAGAAACGACCGAAACAAGAAGAAG
AAGGAGGTGCCCAAGCCCGAGTGCTCTGAGAGCTACACGCTGACGCCGGAGGTGGGGGAGCTCATTGAGAAGGTG
CGCAAAGCGCACCAGGAAACCTTCCCTGCCCTCTGCCAGCTGGGCAAATACACTACGAACAACAGCTCAGAACAA
CGTGTCTCTCTGGACATTGACCTCTGGGACAAGTTCAGTGAACTCTCCACCAAGTGCATCATTAAGACTGTGGAG
TTCGCCAAGCAGCTGCCCGGCTTCACCACCCTCACCATCGCCGACCAGATCACCCTCCTCAAGGCTGCCTGCCTG
GACATCCTGATCCTGCGGATCTGCACGCGGTACACGCCCGAGCAGGACACCATGACCTTCTCGGACGGGCTGACC
CTGAACCGGACCCAGATGCACAACGCTGGCTTCGGCCCCCTCACCGACCTGGTCTTTGCCTTCGCCAACCAGCTG
CTGCCCCTGGAGATGGATGATGCGGAGACGGGGCTGCTCAGCGCCATCTGCCTCATCTGCGGAGACCGCCAGGAC
CTGGAGCAGCCGGACCGGGTGGACATGCTGCAGGAGCCGCTGCTGGAGGCGCTAAAGGTCTACGTGCGGAAGCGG
AGGCCCAGCCGCCCCCACATGTTCCCCAAGATGCTAATGAAGATTACTGACCTGCGAAGCATCAGCGCCAAGGGG
GCTGAGCGGGTGATCACGCTGAAGATGGAGATCCCGGGCTCCATGCCGCCTCTCATCCAGGAAATGTTGGAGAAC
TCAGAGGGCCTGGACACTCTGAGCGGACAGCCGGGGGGTGGGGGGCGGGACGGGGGTGGCCTGGCCCCCCCGCCA
GGCAGCTGTAGCCCCAGCCTCAGCCCCAGCTCCAACAGAAGCAGCCCGGCCACCCACTCCCCG**TGA**CCGCCCACG
CCACATGGACACAGCCCTCGCCCTCCGCCCCGGCTTTTCTCTGCCTTTCTACCGACCATGTGACCCCGCACCAGC
CCTGCCCCCACCTGCCCTCCCGGGCAGTACTGGGGACCTTCCCTGGGGGACGGGGAGGGAGGAGGCAGCGACTCC
TTGGACAGAGGCCTGGGCCCTCAGTGGACTGCCTGCTCCCACAGCCTGGGCTGACGTCAGAGGCCGAGGCCAGGA
ACTGAGTGAGGCCCCTGGTCCTGGGTCTCAGGATGGGTCCTGGGGGCCTCGTGTTCATCAAGACACCCCTCTGCC
CAGCTCACCACATCTTCATCACCAGCAAACGCCAGGACTTGGCTCCCCCATCCTCAGAACTCACAAGCCATTGCT
CCCCAGCTGGGGAACCTCAACCTCCCCCCTGCCTCGGTTGGTGACAGAGGGGGTGGGACAGGGGCGGGGGGTTCC
CCCTGTACATACCCTGCCATACCAACCCCAGGTATTAATTCTCGCTGGTTTTGTTTTTATTTTAATTTTTTGTT
TTGATTTTTTTAATAAGAATTTTCATTTTAAGCACATTTATACTGAAGGAATTTGTGCTGTGTATTGGGGGGAGC
TGGATCCAGAGCTGGAGGGGGTGGGTCCGGGGGAGGGAGTGGCTCGGAAGGGGCCCCCACTCTCCTTTCATGTCC
CTGTGCCCCCCAGTTCTCCTCCTCAGCCTTTTCCTCCTCAGTTTTCTCTTTAAAACTGTGAAGTACTAACTTTCC
AAGGCCTGCCTTCCCCTCCCTCCCACTGGAGAAGCCGCCAGCCCCTTTCTCCCTCTGCCTGACCACTGGGTGTGG
ACGGTGTGGGGCAGCCCTGAAAGGACAGGCTCCTGGCCTTGGCACTTGCCTGCACCCACCATGAGGCATGGAGCA
GGGCAGAGCAAGGGCCCCGGGACAGAGTTTTCCCAGACCTGGCTCCTCGGCAGAGCTGCCTCCCGTCAGGGCCCA
CATCATCTAGGCTCCCCAGCCCCCACTGTGAAGGGGCTGGCCAGGGGCCCGAGCTGCCCCCACCCCCGGCCTCAG
CCACCAGCACCCCCATAGGGCCCCCAGACACCACACACATGCGCGTGCGCACACACACAAACACACACACTGG
ACAGTAGATGGGCCGACACACACTTGGCCCGAGTTCCTCCATTTCCCTGGCCTGCCCCCCACCCCCAACCTGTCC
CACCCCCGTGCCCCCTCCTTACCCCGCAGGACGGGCCTACAGGGGGGTCTCCCCTCACCCCTGCACCCCCAGCTG
GGGGAGCTGGCTCTGCCCCGACCTCCTTCACCAGGGGTTGGGGCCCCTTCCCCTGGAGCCCGTGGGTGCACCTGT
TACTGTTGGGCTTTCCACTGAGATCTACTGGATAAAGAATAAAGTTCTATTTATTCT

FIGURE 4821

MASNSSSCPTPGGGHLNGYPVPPYAFFFPPMLGGLSPPGALTTLQHQLPVSGYSTPSPATIETQSSSSEEIVPSP
PSPPPLPRIYKPCFVCQDKSSGYHYGVSACEGCKGFFRRSIQKNMVYTCHRDKNCIINKVTRNRCQYCRLQKCFE
VGMSKESVRNDRNKKKKEVPKPECSESYTLTPEVGELIEKVRKAHQETFPALCQLGKYTTNNSSEQRVSLDIDLW
DKFSELSTKCIIKTVEFAKQLPGFTTLTIADQITLLKAACLDILILRICTRYTPEQDTMTFSDGLTLNRTQMHNA
GFGPLTDLVFAFANQLLPLEMDDAETGLLSAICLICGDRQDLEQPDRVDMLQEPLLEALKVYVRKRRPSRPHMFP
KMLMKITDLRSISAKGAERVITLKMEIPGSMPPLIQEMLENSEGLDTLSGQPGGGGRDGGGLAPPPGSCSPSLSP
SSNRSSPATHSP

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FIGURE 4822

GCGCGGCGGGC**ATG**GCTCGGGTGGCGTGGGGGCTGCTGTGGTTGCTGCTGGGCAGCGCCGGGGCGCAGTACGAGA
AGTACAGCTTCCGGGGCTTCCCGCCCGAGGACCTGATGCCGCTGGCCGCGGCGTACGGGCACGCTCTGGAGCAGT
ACGAGGGAGAGAGCTGGCGCGAGAGCGCGCGCTACCTGGAGCGGCGCTGCGGCTGCACCGGCTCCTGCGCGACA
GCGAGGCCTTCTGCCACGCCAACTGCAGCGGCCCCGCGCCCGCGGCCAAGCCCGATCCCGACGGCGGCCGCGCAG
ACGAGTGGGCCTGCGAGCTGCGGCTCTTCGGCCGCGTCCTGGAGCGAGCCGCCTGCCTGCGGCGCTGCAAGCGGA
CGCTGCCCGCCTTCCAGGTGCCCTACCCGCCGCGGCAGCTGCTGCGTGACTTCCAGAGCCGCCTGCCCTACCAGT
ACCTGCACTACGCGCTGTTCAAGGCTAACCGGCTGGAGAAGGCGGTGGCGGCGGCCTACACCTTCCTCCAGAGGA
ACCCGAAGCACGAGCTGACCGCCAAGTATCTCAACTACTATCAGGGGATGCTGGACGTCGCCGACGAGTCCCTCA
CGGACCTAGAGGCCCAGCCCTACGAGGCCGTGTTCCTCCGGGCTGTGAAGCTCTACAACAGCGGGGATTTCCGCA
GCAGCACGGAGGACATGGAGCGGGCCTTGTCAGAGTACCTGGCAGTCTTTGCCCGGTGCCTGGCCGGCTGTGAAG
GGGCCCATGAGCAGGTGGACTTCAAGGACTTCTACCCGGCCATAGCAGATCTCTTTGCAGAGTCCCTGCAGTGCA
AGGTGGACTGTGAGGCCAATTTGACCCCCAATGTGGGTGGCTACTTCGTGGACAAGTTCGTGGCCACCATGTACC
ACTACCTGCAGTTTGCCTACTATAAGTTGAATGATGTGCGCCAGGCTGCCCGCAGCGCCGCCAGCTACATGCTCT
TCGACCCCAAGGACAGCGTCATGCAGCAGAACCTGGTGTATTACCGGTTCCACCGGGCTCGCTGGGGCCTGGAAG
AGGAGGACTTCCAGCCCCGGGAGGAGGCCATGCTCTACCACAACCAGACCGCCGAGCTGCGGGAGCTGCTGGAGT
TCACCCACATGTACCTGCAGTCAGATGATGAGATGGAGCTGGAGGAGACAGAACCGCCCCTGGAGCCTGAGGATG
CCCTATCTGACGCCGAGTTTGAGGGGGGAGGGTGACTACGAGGAGGGCATGTATGCTGACTGGTGGCAGGAGCCGG
ATGCCAAGGGTGACGAGGCCGAGGCTGAGCCAGAGCCTGAACTCGCA**TGA**GAAGGGGACACCCCACACCGCTCAA
GCTTGGGAAGCCTGGTGCCGATGGCCCCACCCTCACCAGCCTGGGCAGCAGCAAGAACTATTTATTAAAAACTTA
AGATGGGCCAGGTGCGGTGGCTCACACCTGTAATCCCAGCATTTTGGGAGGCCAAGGTGGGTGGATCACTTGAGG
CCAGGAGTTCAAGACCAGCCTGGCCAACATGATGAGACCTCCGTCTCTACTAAAATACATAAATTAGCCGGGTGT
GGTGGCAGGCGCCTGAAATCCCAGCTACTCAAGAGGCTGAGGCAGGAGAATCGCTTGAACCTGGGAGGCAAAGGT
TGCGGTGAACTGAGATTGCGCCACCGCACTCCAGCCTGGGCGACAGAGCGAGACTCCATCTTTAAAAAAAAACAA
GACGGGCCGGCACGGTGGCTCACGCCTGTAATCCCAGCACTGAGAGGCCGATCACTTGAGGTCAGGAGTTCAAGA
CCTGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAAATACAAAAATTAGCCAGGCATGGTGGCACACACC
TGTAATCGTAGCTGAGGCAGGAGAATCGCCTGAACCCAGGAGGCGGAGCTTGCAGTGAGCCGAGATCGTGCCACT
GCACTCCAGCCTGGGCGACAGAGTGAGACTCCATCTCAAAAAAAAAAAAAAAAAAACTTAAGATGGACACAGCTGA
CTGGACCCCCATCCTGCCTCACCCATGGGTGCTGCACCCCAGACCCATCCTGCCACTTCTATGTCTCTGGACCAC
AGGATGGTGGTGGCATTGCAGGTTGGCAAGTGGGCTGATGGGGTCCGCCCTCCTCACTGCTGAGCTCCTCACCTG
GACAGTCTCCTGGACAAGGAGTTTCCAGCTGCTGGCTGGAGTCTCAGGCCAAATTGCAGAGGGTCCTCCAGGGTC
CTGAAGAGCACTGGACTAAGAGTCTAGTGGTTCCAGGGCCCTGACCAGTAGGTGCTCAATAAATGTTTGTTGTTG
AATGAAAAAAAAAAAAAAAAAAA

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FIGURE 4823

MARVAWGLLWLLLGSAGAQYEKYSFRGFPPEDLMPLAAAYGHALEQYEGESWRESARYLEAALRLHRLLRDSEAF
CHANCSGPAPAAKPDPDGGRADEWACELRLFGRVLERAACLRRCKRTLPAFQVPYPPRQLLRDFQSRLPYQYLHY
ALFKANRLEKAVAAAYTFLQRNPKHELTAKYLNYYQGMLDVADESLTDLEAQPYEAVFLRAVKLYNSGDFRSSTE
DMERALSEYLAVFARCLAGCEGAHEQVDFKDFYPAIADLFAESLQCKVDCEANLTPNVGGYFVDKFVATMYHYLQ
FAYYKLNDVRQAARSAASYMLFDPKDSVMQQNLVYYRFHRARWGLEEEDFQPREEAMLYHNQTAELRELLEFTHM
YLQSDDEMELEETEPPLEPEDALSDAEFEGEGDYEEGMYADWWQEPDAKGDEAEAEPEPELA

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FIGURE 4824

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TCTTTCGCGGGCACTTCGAATTCTAGTCCCCTCCAGGCAGGAGCCCGGGCCGACGGAGAGGACTTAACGACACTA
TCGGACCCTCTGGGAAAAGAGGGGAGACGTCGTGACCCAGGCCCCGCCCCACCTTGCCGCCTCGTGCCCGGCGCT
AAGACCCAGCGGGCGCGCCGCCCGCCCGGGGCCCGGCCCTGTCCCCTTCCGTCCGCGGGGCAGCCAGCTCAGCTC
CGGAGAGCCGGCGGCGCGGCGGGCATGGCTCGGGTGGCGTGGGGGCTGCTGTGGTTGCTGCTGGGCAGCGCCGGG
GCGCAGTACGAGAAGTACAGCTTCCGGGGCTTCCCGCCCGAGGACCTGATGCCGCTGGCCGCGGCGTACGGGCAC
GCTCTGGAGCAGTACGAGGGAGAGAGCTGGCGCGAGAGCGCGCGCTACCTGGAGGCGGCGCTGCGGCTGCACCGG
CTCCTGCGCGACAGCGAGGCCTTCTGCCACGCCAACTGCAGCGGCCCCG
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FIGURE 4825

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AGCTATGATCGCAACACCTTGGTGGCCATCGTGGTGGGTGTGGGGCGCCTCATCACTGGCATGGACCGAGGCCTC
ATGGGCATGTGTGTCAACGAGCGGCGACGCCTCATTGTGCCTCCCCACCTGGGCTATGGGAGCATCGGCCTGGCG
GGGCTCATTCCACCGGATGCCACCCTCTACTTCGATGTGGTTCTGCTGGATGTGTGGAACAAGGAAGACACCGTG
CAGGTGAGCACATTGCTGCGCCCGCCCCACTGCCCCCGCATGGTCCAGGACGGCGACTTTGTCCGCTACCACTAC
AATGGCACCCTGCTGGACGGCACCTCCTTCGACACCAGCTACAGTAAGGGCGGCACTTATGACACCTACGTCGGC
TCTGGTTGGCTGATCAAGGGCATGGACCAGGGGCTGCTGGGCATGTGTGTCCTGGAGAGAGAAGGAAGATTATCATC
CCTCCATTCCTGGCCTATGGCGAGAAAGGCTATGGGACAGTGATCCCCCCACAGGCCTCGCTGGTCTTTCACGTC
CTCCTGATTGACGTGCACAACCCGAAGGACGCTGTCCAGCTAGAGACGCTGGAGCTCCCCCCCGGCTGTGTCCGC
AGAGCCGGGGCCGGGGACTTCATGCGCTACCACTACAATGGCTCCTTGATGGACGGCACCCTCTTCGATTCCAGC
TACTCCCGCAACCACACCTACAATACCTATATCGGGCAGGGTTACATCATCCCCGGGATGGACCAGGGGCTGCAG
GGTGCCTGCATGGGGGAACGCCGGAGAATTACCATCCCCCCGCACCTCGCCTATGGGGAGAATGGAACTGGAGAC
AAGATCCCTGGCTCTGCCGTGCTAATCTTCAACGTCCATGTCATTGACTTCCACAACCCTGCGGATGTGGTGGAA
ATCAGGACACTGTCCCGGCCATCTGAGACCTGCAATGAGACCACCAAGCTTGGGGACTTTGTTCGATACCATTAC
AACTGTTCTTTGCTGGACGGCACCCAGCTGTTCACCTCGCATGACTACGGGGCCCCCCAGGAGGCGACTCTCGGG
GCCAACAAGGTGATCGAAGGCCTGGACACGGGCCTGCAGGGCATGTGTGTGGGAGAGAGGCGGCAGCTCATCGTG
CCCCCGCACCTGGCCCACGGGGAGAGTGGAGCCCGGGGAGTCCCAGGCAGTGCTGTGCTGCTGTTTGAGGTGGAG
CTGGTGTCCCGGGAGGATGGGCTGCCCACAGGCTACCTGTTTGTGTGGCACAAGGACCCTCCTGCCAACCTGTTT
GAAGACATGGACCTCAACAAGGATGGCGAGGTCCCTCCGGAGGAGTTCTCCACCTTCATCAAGGCTCAAGTGAGT
GAGGGCAAAGGACGCCTCATGCCTGGGCAGGACCCTGAGAAAACCATAGGAGACATGTTCCAGAACCAGGACCGC
AACCAGGACGGCAAGATCACAGTCGACGAGCTCAAGCTGAAGTCAGATGAGGACGAGGAGCGGGTCCACGAGGAG
CTCTGAGGGGCAGGGAGCCTGGCCAGGCCTGAGACACAGAGGCCCACTGCGAGGGGGACAGTGGCGGTGGGACTG
ACCTGCTGACAGTCACCCTCCCTCTGCTGGGATGAGGTCCAGGAGCCAACTAAAACAATGGCAGAGGAGACATCT
CTGGTGTTCCCACCACCCTAGATGAAAATCCACAGCACAGACCTCTACCGTGTTTCTCTTCCATCCCTAAACCAC
TTCCTTAAAATGTTTGGATTTGCAAAGCCAATTTGGGGCCTGTGGAGCCTGGGGTTGGATAGGGCCATGGCTGGT
CCCCCACCATACCTCCCCTCCACATCACTGACACAGCTGAGCTTGTTATCCATCTCCCCAAACTTTCTCTTTCTT
TGTACTTCTTGTCATCCCCACTCCCAGCCCCTTTTCCTCTATGTGACAGCTCCCTAGGACCCCTCTGCCTTCCTC
CCCAATCCTGACTGGCTCCTAGGGAAGGGGAAGGCTCCTGGAGGGCAGCCCTACCTCTCCCATGCCCTTTGCCCT
CCTCCCTCGCCTCCAGTGGAGGCTGAGCTGACCCTGGGCTGCTGGAGGCCAGACTGGGCTGTAGTTAGCTTTTCA
TCCCTAAAGAAGGCTCCTTTCCCTAAGGAACCATAGAAGAGAGGAAGAAAACAAAGGGCATGTGTGAGGGAAGCT
GCTTGGGTGGGTGTTAGGGCTATGAAATCTTGGATTTGGGGCTGAGGGGTGGGAGGGAGGGCAGAGCTCTGCACA
CTCAAAGGCTAAACTGGTGTCAGTCCTTTTTTCCTTTGTTCCAAATAAAAGATTAAACC
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FIGURE 4826

GGGATGGCAGAGGAGGTGAGGAGGGAGGAAGCGTCCGGAGTGGGGCGGGCCCGGACTCCGACCCCCGGGGCGCTT
CGAGCCCCCCAGCTGGTCACCGAGGCACCGCCGCTTCACCCAGGCCAGTAGCCGCCCCCTCGCGCACCCCGGCCC
CGCCTCACACGCGCGCCCGAGCGAGCCCCGGGCTCCCCTCGGGCCCAGCGTGGCGCAGGGGTCAGTGGTTCTCTC
GGGTCTCGGGACAGGTGAGCACCCTGATGAAGGCCACGGTCCTGATGCGGCAGCCTGGGCGGGTGCAGGAGATCG
TGGGCGCCCTCCGCAAGGGCGGCGGAGACCGGTTACAGGTGATTTCTGATTTTGACATGACCTTGAGCAGGTTTG
CATATAATGGAAAGCGATGCCCTTCTTCTTACAATATTCTGGATAATAGCAAGATCATCAGTGAGGAGTGTCGGA
AAGAGCTCACAGCGCTCCTTCACCACTATTACCCAATTGAGATCGACCCACACCGGACCGTCAAGGAGAAGCTAC
CTCATATGGTGGAATGGTGGACCAAAGCACACAATCTCCTATGTCAGCAGAAGATTCAGAAGTTTCAGATAGCCC
AGGTGGTTAGAGAGTCCAATGCAATGCTCAGGGAGGGATATAAGACCTTCTTCAACACACTCTACCATAACAACA
TTCCCCTTTTCATCTTTTCTGCGGGCATTGGTGATATCCTGGAAGAAATTATCCGACAGATGAAAGTGTTCCACC
CCAACATCCACATCGTGTCTAACTACATGGATTTTAATGAAGATGGTTTTCTCCAGGGATTTAAGGGCCAGCTCA
TACACACATACAACAAGAACAGCTCTGCGTGTGAGAACTCTGGTTACTTCCAGCAACTTGAGGGCAAAACCAATG
TCATCCTGCTGGGAGACTCTATCGGGGACCTCACCATGGCCGATGGGGTTCCTGGTGTGCAGAACATTCTCAAAA
TTGGCTTCCTGAATGACAAGGTGGAGGAGCGGCGGGAGCGCTACATGGACTCCTATGACATCGTGCTGGAGAAGG
ACGAGACTCTGGATGTGGTCAACGGGCTACTGCAGCACATCCTGTGCCAGGGGGTCCAGCTGGAGATGCAAGGCC
CCTGAAGGCGCAGGCTCCAGCCCGGCCTGCAGGCCGTGGTGAGGAGGGGCGCCTCCCCAGAGTCTGCTCCCCCGT
GAACACAGAGCAGAGGCCAGGGTGGCCAGCAGTGGCTGGGTCCTTCCGCGCCCCTCCGTCCTCCTTTCCCTGAGC
ACCTTCATCACCAGAGGCTTGAAGGAACCCCGCCATGTGGCAGGGCACAGGCACTGTTCCTGGTGAACCTTGGAC
CACAGCATGTCAGTGCTCTAGGGATTGTCTACTCCAGGGATTTTCTTCAAAATTTTTAAACATGGGAAGTTCAAA
CAAATATAATGTGTGAAACAG

FIGURE 4827A

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CCGGATTTTGCGGGGGTTCGTCGGGCCTGTGGAAGAAGCGCCGCGCACGGACTTCGGCAGAGGTAGAGCAGGTCTC
TCTGCAGCCATGTCGGCCAAGGCAATTTCAGAGCAGACGGGCAAAGAACTCCTTTACAAGTTCATCTGTACCACC
TCAGCCATCCAGAATCGGTTCAAGTATGCTCGGGTCACTCCTGACACAGACTGGGCCCGCTTGCTGCAGGACCAC
CCCTGGCTGCTCAGCCAGAACTTGGTAGTCAAGCCAGACCAGCTGATCAAACGTCGTGGAAAACTTGGTCTCGTT
GGGGTCAACCTCACTCTGGATGGGGTCAAGTCCTGGCTGAAGCCACGGCTGGGACAGGAAGCCACAGTTGGCAAG
GCCACAGGCTTCCTCAAGAACTTTCTGATCGAGCCCTTCGTCCCCCACAGTCAGGCTGAGGAGTTCTATGTCTGC
ATCTATGCCACCCGAGAAGGGGACTACGTCCTGTTCCACCACGAGGGGGGTGTGTGGACGTGGGTGATGTGGACGCC
AAGGCCCAGAAGCTGCTTGTTGGCGTGGATGAGAAACTGAATCCTGAGGACATCAAAAAACACCTGTTGGTCCAC
GCCCCTGAAGACAAGAAAGAAATTCTGGCCAGTTTTATCTCCGGCCTCTTCAATTTCTACGAGGACTTGTACTTC
ACCTACCTCGAGATCAATCCCCTTGTAGTGACCAAAGATGGAGTCTATGTCCTTGACTTGGCGGCCAAGGTGGAC
GCCACTGCCGACTACATCTGCAAAGTGAAGTGGGGTGACATCGAGTTCCCTCCCCCCTTCGGGCGGGAGGCATAT
CCAGAGGAAGCCTACATTGCAGACCTCGATGCCAAAAGTGGGGCAAGCCTGAAGCTGACCTTGCTGAACCCCAAA
GGGAGGATCTGGACCATGGTGGCCGGGGGGGTGGCGCCTCTGTCGTGTACAGCGATACCATCTGTGATCTAGGGGGT
GTCAACGAGCTGGCAAACTATGGGGAGTACTCAGGCGCCCCCAGCGAGCAGCAGACCTATGACTATGCCAAGACT
ATCCTCTCCCTCATGACCCGAGAGAAGCACCCAGATGGCAAGATCCTCATCATTGGAGGCAGCATCGCAAACTTC
ACCAACGTGGCTGCCACGTTCAAGGGCATCGTGAGAGCAATTCGAGATTACCAGGGCCCCCTGAAGGAGCACGAA
GTCACAATCTTTGTCCGAAGAGGTGGCCCCAACTATCAGGAGGGCTTACGGGTGATGGGAGAAGTCGGGAAGACC
ACTGGGATCCCCATCCATGTCTTTGGCACAGAGACTCACATGACGGCCATTGTGGGCATGGCCCTGGGCCACCGG
CCCATCCCCAACCAGCCACCCACAGCGGCCCACACTGCAAACTTCCTCCTCAACGCCAGCGGGAGCACATCGACG
CCAGCCCCCAGCAGGACAGCATCTTTTTCTGAGTCCAGGGCCGATGAGGTGGCGCCTGCAAAGAAGGCCAAGCCT
GCCATGCCACAAGATTCAGTCCCAAGTCCAAGATCCCTGCAAGGAAAGAGCACCACCCTCTTCAGCCGCCACACC
AAGGCCATTGTGTGGGGCATGCAGACCCGGGCCGTGCAAGGCATGCTGGACTTTGACTATGTCTGCTCCCGAGAC
GAGCCCTCAGTGGCTGCCATGGTCTACCCTTTCACTGGGGACCACAAGCAGAAGTTTTACTGGGGGCACAAAGAG
ATCCTGATCCCTGTCTTCAAGAACATGGCTGATGCCATGAGGAAGCATCCGGAGGTAGATGTGCTCATCAACTTT
GCCTCTCTCCGCTCTGCCTATGACAGCACCATGGAGACCATGAACTATGCCCAGATCCGGACCATCGCCATCATA
GCTGAAGGCATCCCTGAGGCCCTCACGAGAAAGCTGATCAAGAAGGCGGACCAGAAGGGAGTGACCATCATCGGA
CCTGCCACTGTTGGAGGCATCAAGCCTGGGTGCTTTAAGATTGGCAACACAGGTGGGATGCTGGACAACATCCTG
GCCTCCAAACTGTACCGCCCAGGCAGCGTGGCCTATGTCTCACGTTCCGGAGGCATGTCCAACGAGCTCAACAAT
ATCATCTCTCGGACCACGGATGGCGTCTATGAGGGCGTGGCCATTGGTGGGGACAGGTACCCGGGCTCCACATTC
ATGGATCATGTGTTACGCTATCAGGACACTCCAGGAGTCAAAATGATTGTGGTTCTTGGAGAGATTGGGGGCACT
GAGGAATATAAGATTTGCCGGGGGCATCAAGGAGGGCCGCCTCACTAAGCCCATCGTCTGCTGGTGCATCGGGACG
TGTGCCACCATGTTCTCCTCTGAGGTCCAGTTTGGCCATGCTGGAGCTTGTGCCAACCAGGCTTCTGAAACTGCA
GTAGCCAAGAACCAGGCTTTGAAGGAAGCAGGAGTGTTTGTGCCCCGGAGCTTTGATGAGCTTGGAGAGATCATC
CAGTCTGTATACGAAGATCTCGTGGCCAATGGAGTCATTGTACCTGCCCAGGAGGTGCCGCCCCCAACCGTGCCC
ATGGACTACTCCTGGGCCAGGGAGCTTGGTTTGATCCGCAAACCTGCCTCGTTCATGACCAGCATCTGCGATGAG
CGAGGACAGGAGCTCATCTACGCGGGCATGCCCATCACTGAGGTCTTCAAGGAAGAGATGGGCATTGGCGGGGTC
CTCGGCCTCCTCTGGTTCCAGAAAAGGTTGCCTAAGTACTCTTGCCAGTTCATTGAGATGTGTCTGATGGTGACA
GCTGATCACGGGCCAGCCGTCTCTGGAGCCCACAACACCATCATTTGTGCGCGAGCTGGGAAAGACCTGGTCTCC
AGCCTCACCTCGGGGCTGCTCACCATCGGGGATCGGTTGGGGGGTGCCTTGGATGCAGCAGCCAAGATGTTCAGT
AAAGCCTTTGACAGTGGCATTATCCCCATGGAGTTTGTGAACAAGATGAAGAAGGAAGGGAAGCTGATCATGGGC
ATTGGTCACCGAGTGAAGTCGATAAACAACCCAGACATGCGAGTGCAGATCCTCAAAGATTACGTCAGGCAGCAC
TTCCCTGCCACTCCTCTGCTCGATTATGCACTGGAAGTAGAGAAGATTACCACCTCGAAGAAGCCAAATCTTATC
CTGAATGTAGATGGTCTCATCGGAGTCGCATTTGTAGACATGCTTAGAAACTGTGGGTCCTTTACTCGGGAGGAA
GCTGATGAATATATTGACATTGGAGCCCTCAATGGCATCTTTGTGCTGGGAAGGAGTATGGGGTTCATTGGACAC
TATCTTGATCAGAAGAGGCTGAAGCAGGGGCTGTATCGTCATCCGTGGGATGATATTTCATATGTTCTTCCGGAA
CACATGAGCATGTAACAGAGCCAGGAACCCTACTGCAGTAAACTGAAGACAAGATCTCTTCCCCCAAGAAAAAGT
GTACAGACAGCTGGCAGTGGAGCCTGCTTTATTTAGCAGGGGCCTGGAATGTAAACAGCCACTGGGGTACAGGCA
CCGAAGACCAACATCCACAGGCTAACACCCCTTCAGTCCACACAAAGAAGCTTCATATTTTTTTTATAAGCATAG
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FIGURE 4827B

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AAATAAAAACCAAGCCAATATTTGTGACTTTGCTCTGCTACCTGCTGTATTTATTATATGGAAGCATCTAAGTAC
TGTCAGGATGGGGTCTTCCTCATTGTAGGGCGTTAGGATGTTGCTTTCTTTTTCCATTAGTTAAACATTTTTTTC
TCCTTTGGAGGAAGGGAATGAAACATTTATGGCCTCAAGATACTATACATTTAAAGCACCCCAATGTCTCTCTTT
TTTTTTTTTTACTTCCCTTTCTTCTTCCTTATATAACATGAAGAACATTGTATTAATCTGATTTTTAAAGATCTT
TTTGTATGTTACGTGTTAAGGGCTTGTTTGGTATCCCACTGAAATGTTCTGTGTTGCAGACCAGAGTCTGTTTAT
GTCAGGGGGATGGGGCCATTGCATCCTTAGCCATTGTCACAAAATATGTGGAGTAGTAACTTAATATGTAAAGTT
GTAACATACATACATTTAAAATGGAAATGCAGAAAGCTGTGAAATGTCTTGTGTCTTATGTTCTCTGTATTTATG
CAGCTGATTTGTCTGTCTGTAACTGAAGTGTGGGTCCAAGGACTCCTAACTACTTTGCATCTGTAATCCACAAAG
ATTCTGGGCAGCTGCCACCTCAGTCTCTTCTCTGTATTATCATAGTCTGGTTTAAATAAACTATATAGTAACA
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FIGURE 4828

MSAKAISEQTGKELLYKFICTTSAIQNRFKYARVTPDTDWARLLQDHPWLLSQNLVVKPDQLIKRRGKLGLVGVN
LTLDGVKSWLKPRLGQEATVGKATGFLKNFLIEPFVPHSQAEEFYVCIYATREGDYVLFHHEGGVDVGDVDAKAQ
KLLVGVDEKLNPEDIKKHLLVHAPEDKKEILASFISGLFNFYEDLYFTYLEINPLVVTKDGVYVLDLAAKVDATA
DYICKVKWGDIEFPPPFGREAYPEEAYIADLDAKSGASLKLTLLNPKGRIWTMVAGGGASVVYSDTICDLGGVNE
LANYGEYSGAPSEQQTYDYAKTILSLMTREKHPDGKILIIGGSIANFTNVAATFKGIVRAIRDYQGPLKEHEVTI
FVRRGGPNYQEGLRVMGEVGKTTGIPIHVFGTETHMTAIVGMALGHRPIPNQPPTAAHTANFLLNASGSTSTPAP
SRTASFSESRADEVAPAKKAKPAMPQDSVPSPRSLQGKSTTLFSRHTKAIVWGMQTRAVQGMLDFDYVCSRDEPS
VAAMVYPFTGDHKQKFYWGHKEILIPVFKNMADAMRKHPEVDVLINFASLRSAYDSTMETMNYAQIRTIAIIAEG
IPEALTRKLIKKADQKGVTIIGPATVGGIKPGCFKIGNTGGMLDNILASKLYRPGSVAYVSRSGGMSNELNNIIS
RTTDGVYEGVAIGGDRYPGSTFMDHVLRYQDTPGVKMIVVLGEIGGTEEYKICRGIKEGRLSTPVVCWCIGTCAT
MFSSEVQFGHAGACANQASETAVAKNQALKEAGVFVPRSFDELGEIIQSVYEDLVANGVIVPAQEVPPPTVPMDY
SWARELGLIRKPASFMTSICDERGQELIYAGMPITEVFKEEMGIGGVLGLLWFQKRLPKYSCQFIEMCLMVTADH
GPAVSGAHNTIICARAGKDLVSSLTSGLLTIGDRFXGCLGCSSQDVQ

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FIGURE 4829

GGCTGAGGGGAGGGCCGTTGGCCGGGGCCTGCGGTACGCCGCTTCAGTGAGGGACGCCACTGCGGCCACCCGGCT
TGCTGCCTTCCTGGGCGCCACTCCCCCAGGCGACCCGACGCGACGCGCCAGCAGCGCAGCACCGATTCCTCTCGG
GCTCTTGGGCGCTGCTCTGAGCAGCGTCACCCTTTACACCAGAAAGCTGGCGGGCACTATGGGGAAAAAACAAAA
CAAGAAGAAAGTGGAGGAGGTGCTAGAAGAGGAGGAAGAGGAATATGTGGTGGAAAAAGTTCTCGACCGTCGAGT
GGTAAAGGGCAAAGTGGAGTACCTCCTAAAGTGGAAGGGATTCTCAGATGAGGACAACACATGGGAGCCAGAAGA
GAACCTGGATTGCCCCGACCTCATTGCTGAGTTTCTGCAGTCACAGAAAACAGCACATGAGACAGATAAATCAGA
GGGAGGCAAGCGCAAAGCTGATTCTGATTCTGAAGATAAGGGAGAGGAGAGCAAACCAAAGAAGAAGAAAGAAGA
GTCAGAAAAGCCACGAGGCTTTGCTCGAGGTTTGGAGCCGGAGCGGATTATTGGAGCTACAGACTCCAGTGGAGA
GCTCATGTTCCTGATGAAATGGAAAAACTCTGATGAGGCTGACCTGGTCCCTGCCAAGGAAGCCAATGTCAAGTG
CCCACAGGTTGTCATATCCTTCTATGAGGAAAGGCTGACGTGGCATTCCTACCCCTCGGAGGATGATGACAAAAA
AGATGACAAGAACTAACGCTCCTGAGTACCAGCCCCTGTCACATCTGACTGTGGGTTTCAAGTGGGAAGGGAAGG
AGTTCTACTTGTCTTGACACCATAGAGGTGGCTTGAGAAGATGTCCTTTGAAGAGCCAGTATAGTTTCTGTGCCC
TGCAGCAGCCCAAGTGCTTTAAAGCCGTTTCAAGCTGTATAGTTTGCACACCCATCCCAGTGGAGGGGAAAGGGG
ATAAGTGTTTCAAGGCAACCTTTTCTGCACTTTGCTGCGAAAAGCAAAGGGCCTTCTATGAAGGACAAAACTTGC
AGAATTGGGTGTGTGGGAGAGCAAAAAAATACTGTAGATCTTCAAAGAGCATCTCCACAACCCACAGCCTTCTTC
CCAATAGTGTTAACTCTGCATTTTTACAGCGTAGCATGTGTGTAGTTTTTGGCTATTACTGGTGTATTATTTGGG
GGAGGGAGGGATGGGGAGGGGAGAAAGGGAGATGGGTAGCATCATTTTGATTAACATTTGGGGCCTGATAGGGGA
AATGGTGAAGCAATGGAAAAGAACAGACAACTAATGATTTGCTTCTATGTCCAGAATATTTTACCTTTAAAAAAA
TGTCATTGGCACCATAAATAAGGACTGTGAGAGACTGTTTAAAAGCTGTGAAAGTCTGAAACCTATAAGCCAAGG
TGTTCCCTGCCTAAACTTATTGCTGTTCCCACAAAGGACTAAGCCTGTTCATAAGTTACCAAAGTTGCCATTTTG
GAGATGGAAATTGACGAGGAGGGAAGGTCTTTTATTGGAGAGTATACAGTACAAGCAGATCATTCTGCCTTAGAG
GTGCTAATTCCCGAAATTAGAAGACCCTTTCTTTTCCAGTAACGAAGTTATAAATATCAGCTTGTTCATCCAAGC
CACTGGCTGAGGTGTTAGGAAGAGGAAGAGGGTGGTAGAGGAGGTAAGACAGTAGGGAAAGACAAGGGCCCATGC
TCTTAGTGGGGAAAACTCTTGGAGCCGTTTACTTTGAGCTTTGAACACTGAAACCATTGTTGGCAGGGTTCAGTC
ACTGACAGCACAAGTTTCACTGAATTGATCCAAGAGTTTAGTGATTTCAAAAGCCTTGGTCTCAGGAGAAGATTA
AACTTTCATATTGGGCAGTGGTTCACTTTAAAAACACACACATACACACACAAAACAATTTTTTAAGAAATCCTAA
TAAGTAACATACCCAAAATGCTCTGTCTTGAGTCATGAGAACCATCAGTTCTTGATATTGTCTAGACTTGCATCT
AGAGCTACGTTGTAAAATTCTTTTAGGCATGTGTTAGATTTCTGTGTAAACTTTGTTTAAATGTAAACTTCATAC
TACATTGTCAGTTTTTGTCTTAATAAAACTATAGATTTAT

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FIGURE 4830

CTGAAGCGGAAGTGGAGGAAAGATGGAGGACCATCAGCACGTGCCCATCGACATCCAGACCAGCAAGCTGCTCGA
TTGGCTGGTGGACAGAAGGCACTGCAGCCTGAAATGGCAGAGTCTGGTGCTGACGATCCGCGAGAAGATCAATGC
TGCCATCCAGGACATGCCAGAGAGCGAAGAGATCGCCCAGCTGCTGTCTGGGTCCTACATTCACTACTTTCACTG
CCTAAGAATCCTGGACCTTCTCAAAGGCACAGAGGCCTCCACGAAGAATATTTTTGGCCGATACTCTTCACAGCG
GATGAAGGATTGGCAGGAGATTATAGCTCTGTATGAGAAGGACAACACCTACTTAGGTAAAGTGGCCCGGCCTGG
GAGCCCTGGTATCCATGGGGAAGCCCACTCTCAGAGTTCTGAGATACCAGGCTTATAGGAGGCACAGTCTGTGAG
TGGGAAGAGACTGGAGTGTAGATGTTGCCCATTTGTAGGTGGTAAAATCAATTGTTTTTGATGGAATTGATTTTC
CCTGAGTGGAGTGCTGGGGGAAGGAGGAGGTCCAGGCCGGTAGTGGCCATTCGCCGTGCCTCAGCGAGCAGGTGT
GTGTGGGTCCTCCACCACTCACCTCTTGGTTAGCGGGAGTGTGCTGCCCCCACCCCCACCCCCGCACCCCCATTC
TACACAAGGCAGAAGAGGCACGGGTTTTCCTGGGAGCGAATATCAAGTGCCTGAGAGCAACTACAGGACTAACTG
TGTTTGGGTTGGGTGTAGTATAAATAATAATAATGGCTAATATTTCCTGAGCATCTACTAAATGCAAGGAATTGT
GCTTGGTGTGTCATGTGGATTCTCTCTTGCATCTTCATGATAAATGTTATTGTCGCTGTTTTACCGATGAGGGTT
GGATTAGAGGGGTTAAACAACTTGTCTTAGGCTCCACAGCTGGGAACAAGTGGGGCTGGGAAGCTGACTTCGTGC
TCTTCACCACCACAAAGG**ATG**TGTGTGCATCCTGGGGCATGCCTGCCTCATGTGGGGGTGTCCTGGGCTGAATTT
CCTGGGCACTTCTCAGTGGAACTCTCTAGCCTCCTGGTTCGGAATGTCAACTATGAGATCCCCTCACTGAAGAAG
CAGATTGCCAAGTGCCAGCAGCTGCAGCAAGAATACAGCCGCAAGGAGGAGGAGTGCCAGGCAGGGCTGCCGAG
ATGCGGGAGCAGTTCTACCACTCCTGCAAGCAGTATGGCATCACGGGCGAAAATGTCCGAGGAGAACTGCTGGCC
CTGGTGAAGGACCTGCCGAGTCAGCTGGCTGAGATTGGGGCAGCGGCTCAGCAGTCCCTGGGGGAAGCCATTGAC
GTGTACCAGGCGTCTGTGGGGTTTGTGTGTGAGAGCCCCACAGAGCAGGTGTTGCCAATGCTGCGGTTCGTGCAG
AAGCGGGGAAACTCAACGGTGTACGAGTGGAGGACAGGGACAGAGCCCTCTGTGGTGGAACGACCCCACCTCGAG
GAGCTTCCTGAGCAGGTGGCAGAAGATGCGATTGACTGGGGCGACTTTGGGGTAGAGGCAGTGTCTGAGGGGACT
GACTCTGGCATCTCTGCCGAGGCTGCTGGAATCGACTGGGGCATCTTCCCGGAATCAGATTCAAAGGATCCTGGA
GGTGATGGGATAGACTGGGGAGACGATGCTGTTGCTTTGCAGATCACAGTGCTGGAAGCAGGAACCCAGGCTCCA
GAAGGTGTTGCCAGGGGCCCAGATGCCCTGACACTGCTTGAATACACTGAGACCCGGAATCAGTTCCTTGATGAG
CTCATGGAGCTTGAGATCTTCTTAGCCCAGAGAGCAGTGGAGTTGAGTGAGGAGGCAGATGTCCTGTCTGTGAGC
CAGTTCCAGCTGGCTCCAGCCATCCTGCAGGGCCAGACCAAAGAGAAGATGGTTACCATGGTGTCAGTGCTGGAG
GATCTGATTGGCAAGCTTACCAGTCTTCAGCTGCAACACCTGTTTATGATCCTGGCCTCACCAAGGTATGTGGAC
CGAGTGACTGAATTCCTCCAGCAAAAGCTGAAGCAGTCCCAGCTGCTGGCTTTGAAGAAAGAGCTGATGGTGCAG
AAGCAGCAGGAGGCACTTGAGGAGCAGGCGGCTCTGGAGCCTAAGCTGGACCTGCTACTGGAGAAGACCAAGGAG
CTGCAGAAGCTGATTGAAGCTGACATCTCCAAGAGGTACAGCGGGCGCCCTGTGAACCTGATGGGAACCTCTCTG
TGACACCCTCCGTGTTCTTGCCTGCCCATCTTCTCCGCTTTTGGGATGAAGATGATAGCCAGGGCTGTTGTTTTG
GGGCCTTTCAAGGCAAAAGACCAGGCTGACTGGAAGATGGAAAGCCACAGGAAGGAAGCGGCACCTGATGGTGAT
CTTGGCACTCTCCATGTTCTCTACAAGAAGCTGTGGTGATTGGCCCTGTGGTCTACCAGGCGAAAACCACAGATT
CTCCTTCTAGTTAGTATAGCGGACTTAATAAAAGAGGAAAAAACAAAAAAAAAAAAAAAAAAAA

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FIGURE 4831

MCVHPGACLPHVGVSWAEFPGHFSVELSSLLVRNVNYEIPSLKKQIAKCQQLQQEYSRKEEECQAGAAEMREQFY
HSCKQYGITGENVRGELLALVKDLPSQLAEIGAAAQQSLGEAIDVYQASVGFVCESPTEQVLPMLRFVQKRGNST
VYEWRTGTEPSVVERPHLEELPEQVAEDAIDWGDFGVEAVSEGTDSGISAEAAGIDWGIFPESDSKDPGGDGIDW
GDDAVALQITVLEAGTQAPEGVARGPDALTLLEYTETRNQFLDELMELEIFLAQRAVELSEEADVLSVSQFQLAP
AILQGQTKEKMVTMVSVLEDLIGKLTSLQLQHLFMILASPRYVDRVTEFLQQKLKQSQLLALKKELMVQKQQEAL
EEQAALEPKLDLLLEKTKELQKLIEADISKRYSGRPVNLMGTSL

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FIGURE 4832

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GAAGAGGGTCGGGTATCTGGGCATGCGCAGGGCCGCAGGACTCTTGGTGGGGTAGCGAGGGGGACGGTCCCACGA
CTGCTCCGAAGGGCCGGGACTCCCAGTGGGGGCGGGACCCCCGGAGTGCCCGCCTGCGGACTCCCAAGCCTGGAG
CCTGGGGAGAGGGTGGGCACCTCCGTTCCCGCACACCCGTCCATGGTGTGTGCGCCGAGCGTCCAGGAGCCACGG
CGGTGTCTTCCTTGCGCGTCTTTTACACGTGTGGGGGTAGGCTGCTCCTCGGGGCTGAGCCGTGGCCAGGGTTAT
GGAGAGGCCCGCCTCTCCCCAGATGGCGTCGTCGAGCCCTGACTCCCCATGTTCCTGCGACTGCTTTGTCTCCGT
GCCCCCGGCCTCAGCCATCCCGGCTGTGATCTTTGCCAAGAACTCGGACCGACCCCGGGACGAGGTGCAGGAGGT
GGTGTTTGTCCCCGCAGGCACTCACACTCCTGGGAGCCGGCTCCAGTGCACCTACATTGAAGTGGAACAGGTGTC
GAAGACGCACGCTGTGATTCTGAGCCGTCCTTCTTGGCTATGGGGGGCTGAGATGGGCGCCAACGAGCATGGTGT
CTGCATTGGCAACGAGGCTGTGTGGACGAAGGAGCCAGTTGGGGAGGGGGAAGCCCTGCTGGGCATGGACCTACT
CAGGCTGGCTTTGGAACGGAGCAGCTCTGCCCAGGAGGCCTTGCATGTGATCACAGGGTTACTGGAGCACTATGG
GCAGGGGGGCAACTGCCTGGAGGATGCTGCGCCATTCTCCTACCATAGCACCTTCCTGCTGGCTGACCGCACTGA
GGCGTGGGTGCTGGAGACAGCTGGGAGGCTCTGGGCTGCACAGAGGATCCAGGAGGGGGCCCGCAACATCTCCAA
CCAGCTGAGCATTGGCACGGACATCTCGGCCCAACACCCGGAGCTGCGGACTCATGCCCAGGCCAAGGGCTGGTG
GGATGGGCAGGGTGCCTTTGACTTTGCTCAGATCTTCTCCCTGACCCAGCAGCCTGTGCGCATGGAGGCTGCCAA
GGCCCGCTTCCAGGCAGGGCGGGAGCTGCTGCGGCAACGGCAAGGGGGCATCACGGCAGAGGTGATGATGGGCAT
CCTCAGAGACAAGGAGAGTGGTATCTGTATGGACTCGGGAGGCTTTCGCACCACGGCCAGCATGGTGTCTGTCCT
GCCCCAGGATCCCACGCAGCCCTGCGTGCACTTTCTTACCGCCACGCCAGACCCATCCAGGTCTGTGTTCAAACC
TTTCATCTTCGGGATGGGGGTGGCCCAGGCCCCCCAGGTGCTGTCCCCCACTTTTGGAGCACAAGACCCTGTTCG
GACCCTGCCCCGATTCCAGACTCAGGTAGATCGTCGGCATACCCTCTACCGTGGACACCAGGCAGCCCTGGGGCT
GATGGAGAGAGATCAGGATCGGGGGCAGCAGCTCCAGCAGAAACAGCAGGATCTGGAGCAGGAAGGCCTCGAGGC
CACACAGGGGCTGCTGGCCGGCGAGTGGGCCCCACCCCTCTGGGAGCTGGGCAGCCTCTTCCAGGCCTTCGTGAA
GAGGGAGAGCCAGGCTTATGCGTAAGCTTCATAGCTTCTGCTGGCCTGGGGTGGACCCAGGACCCCTGGGGCCTG
GGTGCCCTGAGTGGTGGTAAAGTGGAGCAATCCCTTCACGCTCCTTGGCCATGTTCTGAGCGGCCAGCTTGGCCT
TTGCCTTAATAAATGTGCTTTATTTTC
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FIGURE 4833

MASSSPDSPCSCDCFVSVPPASAIPAVIFAKNSDRPRDEVQEVVFVPAGTHTPGSRLQCTYIEVEQVSKTHAVIL
SRPSWLWGAEMGANEHGVCIGNEAVWTKEPVGEGEALLGMDLLRLALERSSSAQEALHVITGLLEHYGQGGNCLE
DAAPFSYHSTFLLADRTEAWVLETAGRLWAAQRIQEGARNISNQLSIGTDISAQHPELRTHAQAKGWWDGQGAFD
FAQIFSLTQQPVRMEAAKARFQAGRELLRQRQGGITAEVMMGILRDKESGICMDSGGFRTTASMVSVLPQDPTQP
CVHFLTATPDPSRSVFKPFIFGMGVAQAPQVLSPTFGAQDPVRTLPRFQTQVDRRHTLYRGHQAALGLMERDQDR
GQQLQQKQQDLEQEGLEATQGLLAGEWAPPLWELGSLFQAFVKRESQAYA

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FIGURE 4834

TCTCCCTCCGCCTCCCGAGCACCAGCGCGCTCTGAGCTGCCCCCAGGGTCCCTCCCCCGCCGCCAGCAGCCCATT
TGGAGGGAGGAAGTAAGGGAAGAGGAGAGGAAGGGGAGCCGGACCGACTACCCAGACAGAGCCGGTGAATGGGTT
TGTGGTGACCCCCGCCCCCCACCCCCACCCTCCCTTCCCACCCGACCCCCAACCCCCATCCCCAGTTCGAGCCGCC
GCCCGAAAGGCCGGGCCGTCGTCTTAGGAGGAGTCGCCGCCGCCGCCACCTCCGCC**ATG**GAGCTGATCACCATTC
TCGAGAAGACCGTGTCTCCCGATCGGCTGGAGCTGGAAGCGGCGCAGAAGTTCCTGGAGCGTGCGGCCGTGGAGA
ACCTGCCCACTTTCCTTGTGGAACTGTCCAGAGTGCTGGCAAATCCAGGAAACAGTCAGGTTGCCAGAGTTGCAG
CTGGTCTACAAATCAAGAACTCTTTGACATCTAAAGATCCAGATATCAAGGCACAATATCAGCAGAGGTGGCTTG
CTATTGATGCTAATGCTCGACGAGAGTCAAGAACTATGTTTTGCAGACATTGGGTACAGAAACTTACCGGCCTA
GTTCTGCCTCACAGTGTGTGGCTGGTATTGCTTGTGCAGAGATCCCAGTAAACCAGTGGCCAGAACTCATTCCTC
AGCTGGTGGCCAATGTCACAAACCCCAACAGCACAGAGCACATGAAGGAGTCGACATTGGAAGCCATCGGTTATA
TTTGCCAAGATATAGACCCAGAGCAGCTACAAGATAAATCCAATGAGATTCTGACTGCCATAATCCAGGGGATGA
GGAAAGAAGAGCCTAGTAATAATGTGAAGCTAGCTGCTACGAATGCACTCCTGAACTCATTGGAGTTCACCAAAG
CAAACTTTGATAAAGAGTCTGAAAGGCACTTTATTATGCAGGTGGTCTGTGAAGCCACACAGTGTCCAGATACGA
GGGTACGAGTGGCTGCTTTACAGAATCTGGTGAAGATAATGTCCTTATATTATCAGTACATGGAGACATATATGG
GTCCTGCTCTTTTTGCAATCACAATCGAAGCAATGAAAAGTGACATTGATGAGGTGGCTTTACAAGGGATAGAAT
TCTGGTCCAATGTCTGTGATGAGGAAATGGATTTGGCCATTGAAGCTTCAGAGGCAGCAGAACAAGGACGGCCCC
CTGAGCACACCAGCAAGTTTTATGCGAAGGGAGCACTACAGTATCTGGTTCCAATCCTCACACAGACACTAACTA
AACAGGACGAAAATGATGATGACGATGACTGGAACCCCTGCAAAGCAGCAGGGGTGTGCCTCATGCTTCTGGCCA
CCTGCTGTGAAGATGACATTGTCCCACATGTCCTCCCCTTCATTAAAGAACACATCAAGAACCCAGATTGGCGGT
ACCGGGATGCAGCAGTGATGGCTTTTGGTTGTATCTTGGAAGGACCAGAGCCCAGTCAGCTCAAACCACTAGTTA
TACAGGCTATGCCCACCCTAATAGAATTAATGAAAGACCCCAGTGTAGTTGTTCGAGATACAGCTGCATGGACTG
TAGGCAGAATTTGTGAGCTGCTTCCTGAAGCTGCCATCAATGATGTCTACTTGGCTCCCCTGCTACAGTGTCTGA
TTGAGGGTCTCAGTGCTGAACCCAGAGTGGCTTCAAATGTGTGCTGGGCTTTCTCCAGTCTGGCTGAAGCTGCTT
ATGAAGCTGCAGACGTTGCTGATGATCAGGAAGAACCAGCTACTTACTGCTTATCTTCTTCATTTGAACTCATAG
TTCAGAAGCTCCTAGAGACTACAGACAGACCTGATGGACACCAGAACAACCTGAGGAGTTCTGCATATGAATCTC
TGATGGAAATTGTGAAAAACAGTGCCAAGGATTGTTATCCTGCTGTCCAGAAAACGACTTTGGTCATCATGGAAC
GACTGCAACAGGTTCTTCAGATGGAGTCACATATCCAGAGCACATCCGATAGAATCCAGTTCAATGACCTTCAGT
CTTTACTCTGTGCAACTCTTCAGAATGTTCTTCGGAAAGTGCAACATCAAGATGCTTTGCAGATCTCTGATGTGG
TTATGGCCTCCCTGTTAAGGATGTTCCAAAGCACAGCTGGGTCTGGGGGAGTACAAGAGGATGCCCTGATGGCAG
TTAGCACACTGGTGGAAGTGTTGGGTGGTGAATTCCTCAAGTACATGGAGGCCTTTAAACCCTTCCTGGGCATTG
GATTAAAAAATTATGCTGAATACCAGGTTTGTTTGGCAGCTGTGGGCTTAGTGGGAGACTTGTGCCGTGCCCTGC
AATCCAACATCATACCTTTCTGTGACGAGGTGATGCAGCTGCTTCTGGAAAATTTGGGGAATGAGAACGTCCACA
GGTCTGTGAAGCCGCAGATTCTGTCAGTGTTTGGTGATATTGCCCTTGCTATTGGAGGAGAGTTTAAAAAATACT
TAGAGGTTGTATTGAATACTCTTCAGCAGGCCTCCCAAGCCCAGGTGGACAAGTCAGACTATGACATGGTGGATT
ATCTGAATGAGCTAAGGGAAAGCTGCTTGGAAGCCTATACTGGAATCGTCCAGGGATTAAAGGGGGATCAGGAGA
ACGTACACCCGGATGTGATGCTGGTACAACCCAGAGTAGAATTTATTCTGTCTTTCATTGACCACATTGCTGGAG
ATGAGGATCACACAGATGGAGTAGTAGCTTGTGCTGCTGGACTAATAGGGGACTTATGTACAGCATTTGGGAAGG
ATGTACTGAAATTAGTAGAAGCTAGGCCAATGATCCATGAATTGTTAACTGAAGGGCGGAGATCGAAGACTAACA
AAGCAAAAACCCTTGCTACATGGGCAACAAAAGAACTGAGGAAACTGAAGAACCAAGCT**TGA**TCTGTTACCATTG
GGATGATAACCTGAGGACCCCCACTGGAAATCTCCCATCTTTTGAAAAACCTGGAAGTGAGGAGTGTGCACGGAT
GCTGAATGTTTGGGAATGAGAGGATGAGTGAGTGAGGCTTGAAAACACACCACATTGAAAATCCTGCCACAGCAG
CAGCCGCAGCCGCCAACAGCAGCGCTGTTAGTGAGCTAAGTAAGCACTGACTTCGTAGAAAACCATAACATCGGC
CATCTTGGAAAAGAGAAAAACAATGGAGTTACTTATTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 4835

MELITILEKTVSPDRLELEAAQKFLERAAVENLPTFLVELSRVLANPGNSQVARVAAGLQIKNSLTSKDPDIKAQ
YQQRWLAIDANARREVKNYVLQTLGTETYRPSSASQCVAGIACAEIPVNQWPELIPQLVANVTNPNSTEHMKEST
LEAIGYICQDIDPEQLQDKSNEILTAIIQGMRKEEPSNNVKLAATNALLNSLEFTKANFDKESERHFIMQVVCEA
TQCPDTRVRVAALQNLVKIMSLYYQYMETYMGPALFAITIEAMKSDIDEVALQGIEFWSNVCDEEMDLAIEASEA
AEQGRPPEHTSKFYAKGALQYLVPILTQTLTKQDENDDDDDWNPCKAAGVCLMLLATCCEDDIVPHVLPFIKEHI
KNPDWRYRDAAVMAFGCILEGPEPSQLKPLVIQAMPTLIELMKDPSVVVRDTAAWTVGRICELLPEAAINDVYLA
PLLQCLIEGLSAEPRVASNVCWAFSSLAEAAYEAADVADDQEEPATYCLSSSFELIVQKLLETTDRPDGHQNNLR
SSAYESLMEIVKNSAKDCYPAVQKTTLVIMERLQQVLQMESHIQSTSDRIQFNDLQSLLCATLQNVLRKVQHQDA
LQISDVVMASLLRMFQSTAGSGGVQEDALMAVSTLVEVLGGEFLKYMEAFKPFLGIGLKNYAEYQVCLAAVGLVG
DLCRALQSNIIPFCDEVMQLLLLENLGNENVHRSVKPQILSVFGDIALAIGGEFKKYLEVVLNTLQQASQAQVDKS
DYDMVDYLNELRESCLEAYTGIVQGLKGDQENVHPDVMLVQPRVEFILSFIDHIAGDEDHTDGVVACAAGLIGDL
CTAFGKDVLKLVEARPMIHELLTEGRRSKTNKAKTLATWATKELRKLKNQA

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FIGURE 4836

CCCTCCCCTCCGCCCCCTTCCCCGTAGGCAGCCCGCCCGCCAGTCCGCCCGCACCGCCTCCTTCCCAGCCCCTAG
CGCTCCGGCTGGGTCTCTCCCCCGCCCCCCAGGCTCCCCCGGTCGCTCTCCTCCGGCGGTCGCCCGCGCTCGGTG
GATGTGGCTGGCAGCTGCCGCCCCCTCCCTCGCTCGCCGCCTGCTCTTCCTCGGCCCTCCGCCTCCTCCCCTCCT
CCTTCTCGTCTTCAGCCGCTCCTCTCGCCGCCGCCTCCACAGCCTGGGCCTCGCCGCGATGCCGGAGAAGAGGCC
CTTCGAGCGGCTGCCTGCCGATGTCTCCCCCATCAACTACAGCCTTTGCCTCAAGCCCGACTTGCTGGACTTCAC
CTTCGAGGGCAAGCTGGAGGCCGCCGCCCAGGTGAGGCAGGCGACTAATCAGATTGTGATGAATTGTGCTGATAT
TGATATTATTACAGCTTCATATGCACCAGAAGGAGATGAAGAAATACATGCTACAGGATTTAACTATCAGAATGA
AGATGAAAAAGTCACCTTGTCTTTCCCTAGTACTCTGCAAACAGGTACGGGAACCTTAAAGATAGATTTTGTTGG
AGAGCTGAATGACAAAATGAAAGGTTTCTATAGAAGTAAATATACTACCCCTTCTGGAGAGGTGCGCTATGCTGC
TGTAACACAGTTTGAGGCTACTGATGCCCGAAGGGCTTTTCCTTGCTGGGATGAGCCTGCTATCAAAGCAACTTT
TGATATCTCATTGGTTGTTCCTAAAGACAGAGTAGCTTTATCAAACATGAATGTAATTGACGGGAAACCATACCC
TGATGATGAAAATTTAGTGGAAGTGAAGTTTGCCCGCACACCTGTTATGTCTACATATCTGGTGGCATTTGTTGT
GGGTGAATATGACTTTGTAGAAACAAGGTCAAAAGATGGTGTGTGTGTCCGTGTTTACACTCCTGTTGGCAAAGC
AGAGCAAGGAAAATTTGCGTTAGAGGTTGCTGCTAAAACCTTGCCTTTTTATAAGGACTACTTCAATGTTCCTTA
TCCTCTACCTAAAATTGATCTCATTGCTATTGCAGACTTTGCAGCTGGTGCCATGGAGAACTGGGGCCTTGTTAC
TTATAGGGAGACTGCATTGCTTATTGATCCAAAAAATTCCTGTTCTTCATCCCGCCAGTGGGTTGCTCTGGTTGT
GGGACATGAACTCGCCCATCAATGGTTTGGAAATCTTGTTACTATGGAATGGTGGACTCATCTTTGGTTAAATGA
AGGTTTTGCATCCTGGATTGAATATCTGTGTGTAGACCACTGCTTCCCAGAGTATGATATTTGGACTCAGTTTGT
TTCTGCTGATTACACCCGTGCCCAGGAGCTTGACGCCTTAGATAACAGCCATCCTATTGAAGTCAGTGTGGGCCA
TCCATCTGAGGTTGATGAGATATTTGATGCTATATCATATAGCAAAGGTGCATCTGTCATCCGAATGCTGCATGA
CTACATTGGGGATAAGGACTTTAAGAAAGGAATGAACATGTATTTAACCAAGTTCCAACAAAAGAATGCTGCCAC
AGGTAATCTCTAATAGCTTGAGATAGAAATGGAGAGAAAGTATTGTCACTCTATCCAGGCTGGGACATTTTATTT
TTGTTCTGAATACTTAAGGTCAGGATCCATGTAATAAATAAATTAGCCTTATTTG

FIGURE 4837

MWLAAAAPSLARRLLFLGPPPPPLLLLVFSRSSRRRLHSLGLAAMPEKRPFERLPADVSPINCSLCLKPDLLDFT
FEGKLEAAAQVRQATNQIVMNCADIDIITASYAPEGDEEIHATGFNYQNEDEKVTLSFPSTLQTGTGTLKIDFVG
ELNDKMKGFYRSKYTTPSGEVRYAAVTQFEATDARRAFPCWDERAIKATFDISLVVPKDRVALSNMNVIDRKPYP
DDENLVEVKFARTPVTSTYLVAFVVGEYDFVETRSKDGVCVCVYTPVGKAEQGKFALEVAAKTLPFYKDYFNVPY
PLPKIDLIAIADFAAGAMENWDLVTYRETALLIDPKNSCSSSRQWVALVVGHELAHQWFGNLVTMEWWTHLRLNE
GFASWIEYLCVDHCFPEYDIWTQFVSADYTRAQELDALDNSHPIEVSVGHPSEVDEIFDAISYSKGASVIRMLHD
YIGDKDFKKGMNMYLTKFQQKNAAAGNL

FIGURE 4838

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CGCCCGGGCAGGTCTCCCGGAAGTGGCCGGTCCAGAGCTGTGGGGTGCCTCCGCGCGGTCTCTGGCGGATCGGGG
AATCGGATCAAGGCGAGAGGATCCGGCAGGGAAGGAGCTTCGGGGCCGGGGGTTGGGCCGCACATTTACGTGCGC
GAAGCGGAGTGGACCGGGAGCTGGTGACGATGGCGGGGCCGCAGCCCCTGGCGCTGCAACTGGAACAGTTGTTGA
ACCCGCGACCAAGCGAGGCGGACCCTGAAGCGGACCCCGAGGAAGCCACTGCTGCCAGGGTGATTGACAGGTTTG
ATGAAGGGGAAGATGGGGAAGGTGATTTCCTAGTAGTGGGTAGCATTAGAAAACTGGCATCAGCCTCCCTCTTGG
ACACGGACAAAAGGTATTGCGGCAAAACCACCTCTAGAAAAGCATGGAATGAAGACCATTGGGAGCAGACTCTGC
CAGGATCGTCTGATGAGGAAATATCTGATGAGGAAGGGTCTGGAGATGAAGATTCAGAGGGACTGGGTCTGGAGG
AATATGATGAGGACGACCTGGGTGCTGCTGAGGAACAGGAGTGTGGTGATCACAGGGAGAGCAAGAAGAGCAGAA
GCCACTCTGCAAAAACACCGGGCTTCAGTGTCCAGAGTATCAGTGACTTTGAGAAATTTACCAAGGGAATGGATG
ACCTTGGGAGCAGTGAGGAGGAGGAAGACGAAGAGAGTGGCATGGAAGAAGGGGATGACGCGGAAGACTCCCAAG
GCGAGAGTGAGGAAGACAGGGCTGGAGATAGAAACAGTGAGGATGATGGTGTGGTGATGACCTTCTCTAGTGTCA
AAGTTTCTGAGGAAGTGGAGAAAGGAAGAGCCGTGAAGAACCAGATAGCACTGTGGGACCAGCTCTTGGAAGGAA
GGATCAAACTACAAAAAGCTCTGTTGACCACCAACCAGCTTCCTCAACCAGATGTTTTCCCATTGTTCAAGGACA
AAGGTGGCCCAGAATTTTCCAGTGCCCTGAAAAATAGTCACAAGGCACTTAAAGCATTGTTGAGGTCATTGGTAG
GTCTTCAGGAAGAGTTGCTTTTCCAGTACCCAGACACTAGATATCTAGTAGATGGGACAAAGCCCAATGCGGGAA
GTGAGGAGATTTCTAGTGAAGATGATGAGCTGGTAGAAGAGAAGAAGCAGCAACGAAGAAGGGTCCCTGCAAAGA
GGAAGCTGGAGATGGAGGACTATCCCAGCTTCATGGCAAAGCGCTTTGCCGACTTTACAGTCTACAGGAACCGCA
CACTTCAGAAATGGCACGATAAGACCAAACTGGCTTCTGGAAAACTGGGGAAGGGTTTTGGTGCCTTTGAACGCT
CAATCTTGACTCAGATCGACCATATTCTGATGGACAAAGAGAGATTACTTCGAAGGACACAGACCAAGCGCTCTG
TCTATCGAGTTCTTGGCAAACCTGAGCCAGCAGCTCAGCCTGTCCCAGAGAGTTTGCCAGGGGAACCGGAGATCC
TTCCTCAAGCCCCTGCTAATGCTCATCTGAAGGACTTGGATGAAGAAATCTTTGATGATGATGACTTTTACCACC
AGCTCCTTCGAGAACTCATAGAACGGAAGACCAGCTCCTTGGATCCCAACGATCAGGTGGCCATGGGAAGGCAGT
GGCTTGCAATCCAGAAGTTACGAAGCAAAATCCACAAAAAAGTAGATAGGAAAGCCAGCAAAGGCAGGAAACTTC
GGTTTCATGTCCTTAGCAAGCTACTGAGTTTCATGGCACCTATTGACCATACTACAATGAATGATGATGCCAGGA
CAGAACTGTACCGCTCTCTTTTTGGCCAGCTCCACCCTCCCGACGAAGGCCACGGGGATTGACATCGCCCACCTC
CGACACCCAGTGGGCGCCTTGGCTGGTGCGGCTGCTGGTCCAGATGGAGGAAACCAGTGACTTTATGGGGCTGAG
CTAGTAGGGAAGCCCCTGGAAAGATGCTGCGTTCCGAACCTGTGCCTAATACACGCAAGGGCGCTGTCCCGCCCA
ACCCCGCCTTTAAACGCCACAAATAAAGAGCATTGTTACCGCCAAAAAAAAAAAA
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FIGURE 4839

MAGPQPLALQLEQLLNPRPSEADPEADPEEATAARVIDRFDEGEDGEGDFLVVGSIRKLASASLLDTDKRYCGKT
TSRKAWNEDHWEQTLPGSSDEEISDEEGSGDEDSEGLGLEEYDEDDLGAAEEQECGDHRESKKSRSHSAKTPGFS
VQSISDFEKFTKGMDDLGSSEEEEDEESGMEEGDDAEDSQGESEEDRAGDRNSEDDGVVMTFSSVKVSEEVEKGR
AVKNQIALWDQLLEGRIKLQKALLTTNQLPQPDVFPLFKDKGGPEFSSALKNSHKALKALLRSLVGLQEELLFQY
PDTRYLVDGTKPNAGSEEISSEDDELVEEKKQQRRRVPAKRKLEMEDYPSFMAKRFADFTVYRNRTLQKWHDKTK
LASGKLGKGFGAFERSILTQIDHILMDKERLLRRTQTKRSVYRVLGKPEPAAQPVPESLPGEPEILPQAPANAHL
KDLDEEIFDDDDFYHQLLRELIERKTSSLDPNDQVAMGRQWLAIQKLRSKIHKKVDRKASKGRKLRFHVLSKLLS
FMAPIDHTTMNDDARTELYRSLFGQLHPPDEGHGD

FIGURE 4840

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CTTCCCGCCGCCTGACCTGGCCCGCCCGCCTTTCCAGTCTGGCCGGGCGGGGCCTGAAGCACGGCGCTCGGGCGT
GGGACCGTGTTCACACCCTTTCCAGAAATTCTTGGCTGGTAACCGCGAAACCGACTGGAGCAGGAGCTGGGAGAA
CTGGAGAAAACTGCTCTAATCTCACTTGACTCCAGCTAGGAGCTGATGCTGCATCGTAATAACATTTGCAGAGCG
CTTTCACAGGCGCTGGAGTGACTTGTCTGAGATTCCTCCAGAACTGAGCCCTTTGTTGGAACCATACCCCAGCCC
ATGGTCCCATGACTAGGTGGATAGTACTCCTTGTACCTCCTGCAACCCAGAACCCTGGCTGACCACTTTGAAGGA
GGATGCTCCAGCAGGTCAATGGCCACAATCCGGGGTCTGATGGCCAAGCCAGGGAGTACCTCAGAGAAGACCTGC
AGGAGTTCCTGGGTGGGGAGGTCCTGCTGTACAAACTGGATGACCTCACCAGGGTGAATCCTGTGACACTAGAGA
CAGTCCTGAGGTGCCTGCAGGCCCGGTACATGGCAGACACATTCTACACCAATGCTGGCTGCACCCTGGTAGCCT
TGAACCCCTTCAAGCCTGTTCCTCAGCTCTACTCGCCCGAGCTAATGAGAGAGTACCATGCTGCGCCTCAGCCCC
AGAAACTGAAGCCCCATGTGTTCACTGTGGGTGAACAGACCTACAGGAATGTCAAGAGCCTGATTGAACCAGTCA
ACCAGTCTATTGTTGTCAGTGGAGAGAGTGGTGCTGGAAAGACATGGACGTCTCGCTGCCTAATGAAGTTCTATG
CTGTGGTGGCCACCTCACCTGCATCTTGGGAGAGCCACAAGATTGCAGAGAGGATAGAACAGAGGATCCTGAACT
CCAACCCTGTCATGGAAGCTTTTGGGAATGCGTGTACACTGAGGAATAACAACAGCAGTCGCTTTGGGAAGTTCA
TCCAGCTCCAGCTGAACAGGGCTCAGCAAATGACTGGAGCCGCAGTCCAGACCTACCTCCTAGAGAAAACTCGAG
TGGCCTGCCAGGCTTCCAGTGAGAGGAACTTCCACATCTTCTATCAGATTTGCAAAGGAGCCAGTGAGGACGAGA
GGCTCCAGTGGCACCTTCCTGAGGGAGCTGCCTTCTCCTGGCTGCCCAACCCAGAGAGGAGCTTAGAAGAGGATT
GTTTTGAGGTGACCAGAGAGGCCATGCTCCATTTGGGCATTGACACCCCTACCCAGAACAACATCTTTAAGGTCC
TAGCTGGACTGCTGCACCTTGGCAATATCCAGTTTGCTGCCTCCGAGGATGAAGCCCAGCCCTGCCAGCCGATGG
ATGATGCCAAGTACTCTGTCAGGACGGCAGCCTCGCTGCTGGGGCTCCCAGAGGACGTGCTGCTGGAGATGGTGC
AGATTAGAACCATCAGGGCAGGCAGACAGCAGCAGGTGTTCCGGAAGCCCTGCGCCCGAGCCGAGTGTGACACCC
GTAGAGACTGCCTGGCCAAACTGATCTATGCGCGGTTGTTTGACTGGCTGGTATCAGTGATCAACAGCAGCATCT
GTGCAGACACCGACTCGTGGACCACTTTCATAGGCCTGCTGGATGTGTATGGATTTGAATCATTTCCTGACAACA
GTCTGGAACAGTTGTGCATCAACTACGCCAATGAGAAGCTGCAGCTGGAGGCCTGTGGCCTCGTGGAGACCATCC
ATATCAGTGCTGCTGGCTTCCCCATCCGGGTCTCTCACCGAAACTTTGTAGAACGATACAAGTTACTAAGAAGGC
TTCATCCTTGCACATCCTCTGGCCCCGACAGCCCATATCCTGCCAAAGGGCTCCCTGAATGGTGTCCACACAGCG
AGGAAGCCACGCTTGAACCTCTCATCCAGGACATTCTCCACACTCTGCCGGTCCTAACTCAGGCAGCAGCCATAA
CTGGTGACTCGGCTGAGGCCATGCCAGCCCCCATGCACTGTGGCAGGACCAAGGTGTTCATGACTGACTCTATGC
TGGAGCTTCTGGAATGTGGGCGTGCCCGGGTGCTGGAGCAGTGTGCCCGCTGCATCCAGGGTGGCTGGAGGCGAC
ACCGGCACCGAGAGCAGGAGCGGCAGTGGCGGGCCGTCATGCTCATCCAGGCAGCCATTCGTTCCTGGTTAACTC
GGAAACACATCCAGAGGCTGCATGCAGCTGCCACAGTCATCAAGCGTGCATGGCAGAAGTGGAGAATCAGAATGG
CCTGCCTTGCTGCTAAAGAGCTGGATGGTGTGGAAGAAAAACACTTCTCTCAAGCTCCCTGTTCCCTGAGCACCT
CGCCGCTGCAGACCAGGCTCCTGGAGGCAATAATCCGCCTCTGGCCCCTGGGACTGGTCCTGGCCAATACGGCTA
TGGGTGTAGGCAGCTTTCAGAGGAAATTAGTGGTCTGGGCTTGCCTCCAGCTCCCCAGGGGCAGCCCCAGTAGCT
ACACTGTCCAGACAGCACAAGACCAGGCTGGTGTCACGTCCATCCGAGCGCTGCCTCAGGGATCGATAAAGTTTC
ACTGCAGAAAGTCTCCACTGCGGTATGCTGACATCTGCCCTGAACCTTCACCCTACAGCATTACAGGCTTTAATC
AGATTCTGCTGGAAAGACACAGGCTGATCCACGTGACCTCTTCTGCCTTCACTGGGCTGGGGTGATCCTTGGTGC
CTTTGTTTCCACAAGGCCTTTTCCTGCCCCCTGCCTTGCCAAAGACATTTAATCAGCACACAGCTGCCAGACTAT
TCCCACAGTGCTCCAAATGCACATGAACAACAGTGACGGCTCCAGCCTTCGACCCAGAGCCCCGTGCCCAGTGCG
TCAGTGGGCCTGGGGTTCCAGGCTACATCAAGCACTGATGGTGTCAGGGCTGGTAGTTACCAAATCAGGGTTAAG
AAACATCAGGGCCACATTTCACTACCTTCACAGATCAAACTCAGCAGCAGTCATGACTGTCTGTCACTACACTGG
GGATCCCAATTCCACATAAGCACTTTTGGAAGAAAACAGCCAAAGTTGGCCTAAAATTGGCGCTGGAATTTGGGC
TGGGAAAAATCTTGTGGTTATTTCCTTTAAAAAGGAACAAAACTTTAGTATTTAATTAGTTGATTTATTTAATGT
AATTTCAAACAATTAAATTATGAATAATGCAATGT
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FIGURE 4841

ATGGACATGGCGGATGAGCCACTCAATGGAAGCCACACATGGCTATCCATTCCATTTGACCTCAATGGCTCTGTG
GTGTCAACCAACACCTCAAACCAGACAGAGCCGTACTATGACCTGACAAGCAATGCAGTCCTCACATTCATCTAT
TTTGTGGTCTGCATCATTGGGTTGTGTGGCAACACACTTGTCATTTATGTCATCCTCCGCTATGCCAAGATGAAG
ACCATCACCAACATTTACATCCTCAACCTGGCCATCGCAGATGAGCTCTTCATGCTGGGTCTGCCTTTCTTGGCT
ATGCAGGTGGCTCTGGTCCACTGGCCCTTTGGCAAGGCCATTTGCCGGGTGGTCATGACTGTGGATGGCATCAAT
CAGTTCACCAGCATCTTCTGCCTGACAGTCATGAGCATCGACCGATACCTGGCTGTGGTCCACCCCATCAAGTCG
GCCAAGTGGAGGAGACCCCGGACGGCCAAGATGATCACCATGGCTGTGTGGGGAGTCTCTCTGCTGGTCATCTTG
CCCATCATGATATATGCTGGGCTCCGGAGCAACCAGTGGGGGAGAAGCAGCTGCACCATCAACTGGCCAGGTGAA
TCTGGGGCTTGGTACACAGGGTTCATCATCTACACTTTCATTCTGGGGTTCCTGGTACCCCTCACCATCATCTGT
CTTTGCTACCTGTTCATTATCATCAAGGTGAAGTCCTCTGGAATCCGAGTGGGCTCCTCTAAGAGGAAGAAGTCT
GAGAAGAAGGTCACCCGAATGGTGTCCATCGTGGTGGCTGTCTTCATCTTCTGCTGGCTTCCCTTCTACATATTC
AACGTTTCTTCCGTCTCCATGGCCATCAGCCCCACCCCAGCCCTTAAAGGCATGTTTGACTTTGTGGTGGTCCTC
ACCTATGCTAACAGCTGTGCCAACCCTATCCTATATGCCTTCTTGTCTGACAACTTCAAGAAGAGCTTCCAGAAT
GTCCTCTGCTTGGTCAAGGTGAGCGGCACAGATGATGGGGAGCGGAGTGACAGTAAGCAGGACAAATCCCGGCTG
AATGAGACCACGGAGACCCAGAGGACCCTCCTCAATGGAGACCTCCAAACCAGTATC**TGA**

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FIGURE 4842

MDMADEPLNGSHTWLSIPFDLNGSVVSTNTSNQTEPYYDLTSNAVLTFIYFVVCIIGLCGNTLVIYVILRYAKMK
TITNIYILNLAIADELFMLGLPFLAMQVALVHWPFGKAICRVVMTVDGINQFTSIFCLTVMSIDRYLAVVHPIKS
AKWRRPRTAKMITMAVWGVSLLVILPIMIYAGLRSNQWGRSSCTINWPGESGAWYTGFIIYTFILGFLVPLTIIC
LCYLFIIIKVKSSGIRVGSSKRKKSEKKVTRMVSIVVAVFIFCWLPFYIFNVSSVSMAISPTPALKGMFDFVVVL
TYANSCANPILYAFLSDNFKKSFQNVLCLVKVSGTDDGERSDSKQDKSRLNETTETQRTLLNGDLQTSI

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FIGURE 4843

CAGCGAGCCGCAGCGCAATCCCGGCGCTCGCCCAAGGACCCTGGAAGCTACCGTTACCCCGCCGGCAGCGTGGGC
GCC**ATG**AGCAGCTCGGGACTGAATTCGGAGAAGGTAGCTGCTCTGATACAGAAACTGAATTCCGACCCCCAGTTC
GTACTTGCCCAGAATGTCGGGACCACCCACGACCTGCTGGACATCTGTCTGAAGCGGGCCACGGTGCAGCGCGCG
CAGCATGTGTTCCAGCACGCCGTGCCCCAGGAGGGCAAGCCAATCACCAACCAGAAGAGCTCAGGGCGATGCTGG
ATCTTTTCTTGTCTGAATGTTATGAGGCTTCCATTCATGAAAAAGTTAAATATTGAAGAATTTGAGTTTAGCCAA
TCTTACCTGTTTTTTTGGGACAAGGTTGAACGCTGTTATTTCTTCTTGAGTGCTTTTGTGGACACAGCCCAGAGA
AAGGAGCCTGAGGATGGGAGGCTGGTGCAGTTTTTGCTTATGAACCCTGCAAATGATGGTGGCCAATGGGATATG
CTTGTTAATATTGTTGAAAAATATGGTGTTATCCCTAAGAAATGCTTCCCTGAATCTTATACAACAGAGGCAACC
AGAAGGATGAATGATATTCTGAATCACAAGATGAGAGAATTCTGTATACGACTGCGGAACCTGGTACACAGTGGA
GCAACCAAAGGAGAAATCTCGGCCACACAGGACGTCATGATGGAGGAGATATTCCGAGTGGTGTGCATCTGTTTG
GGTAATCCACCAGAGACATTCACCTGGGAATATCGAGACAAAGATAAAAATTATCAGAAAATTGGCCCCATAACA
CCCTTGGAGTTTTACAGGGAACATGTCAAGCCACTCTTCAATATGGAAGATAAGATTTGTTTAGTGAATGACCCT
AGGCCCCAGCACAAGTACAACAAACTTTACACAGTGGAATACTTAAGCAATATGGTTGGTGGGAGAAAAACTCTA
TACAACAACCAGCCCATTGACTTCCTGAAAAAGATGGTTGCTGCCTCCATCAAAGATGGAGAGGCTGTGTGGTTT
GGCTGTGATGTTGGAAAACACTTCAATAGCAAGCTGGGCCTCAGTGACATGAATCTCTATGACCATGAGTTAGTG
TTTGGTGTCTCCTTGAAGAACATGAATAAAGCGGAGAGGCTGACTTTTGGTGAGTCACTTATGACCCACGCCATG
ACCTTCACTGCTGTCTCAGAGAAGGATGATCAGGATGGTGCTTTCACAAAATGGAGAGTGGAGAATTCATGGGGT
GAAGACCATGGCCACAAAGGTTACCTGTGCATGACAGATGAGTGGTTCTCTGAGTATGTCTACGAAGTGGTGGTG
GACAGGAAGCATGTCCCTGAAGAGGTGCTAGCTGTGTTAGAGCAGGAACCCATTATCCTGCCAGCATGGGACCCC
ATGGGAGCTTTGGCTGAG**TGA**TACTGCCCTCCAGCTCTTTCCTCCTTCCATGGAACCTGACGTAGCTGCAAAGGA
CAGATCCAGGGACTGAAGCCAAAGTTATGCAAGGGACTGTGTGTTGCCACAGGACACAGTCAGATTTCCAGTCTC
CACCAGGAACCTCTTCAGAAAGTGTGCTTTATGCTGAAACAGAATACTGTTAAAGGAAAAAAAAGAGGGGGGAAG
ATCAGGTCATACTATCTACTCTCCTCATCTCTAACAGCTCAGGATCTCTTAGCATTTTAATTAGATGTAATTGTT
TGTCTTTAACTGTCAAAAAGTTTGGTTCTGTGTCTGTGTTTTAATAAGACGAGAGGACGAGCGATTGAGGTGTAT
GGAGAGAAAACAGACCTAATGCTCCTTGTTCCTAGAGTAGAGTGGAGGGAGGGTGGCCTAAGAGTTGAGCTCTCG
GAACTGCATGCTGCTGGACAGTATCACTGTCTTTCCTAGATGGCAGTCACTGAATTC

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FIGURE 4844

MSSSGLNSEKVAALIQKLNSDPQFVLAQNVGTTHDLLDICLKRATVQRAQHVFQHAVPQEGKPITNQKSSGRCWI
FSCLNVMRLPFMKKLNIEEFEFSQSYLFFWDKVERCYFFLSAFVDTAQRKEPEDGRLVQFLLMNPANDGGQWDML
VNIVEKYGVIPKKCFPESYTTEATRRMNDILNHKMREFCIRLRNLVHSGATKGEISATQDVMMEEIFRVVCICLG
NPPETFTWEYRDKDKNYQKIGPITPLEFYREHVKPLFNMEDKICLVNDPRPQHKYNKLYTVEYLSNMVGGRKTLY
NNQPIDFLKKMVAASIKDGEAVWFGCDVGKHFNSKLGLSDMNLYDHELVFGVSLKNMNKAERLTFGESLMTHAMT
FTAVSEKDDQDGAFTKWRVENSWGEDHGHKGYLCMTDEWFSEYVYEVVVDRKHVPEEVLAVLEQEPIILPAWDPM
GALAE

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FIGURE 4845

GTAGTCTGAGCGCTACCCGGTTGCTGCTGCCCAAGGACCGCGGAGTCGGACGCAGGCAGACC**ATG**TGGACCCTGG
TGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGCCCAGATGGTCAGTTCTGCCCTGTGGCCT
GCTGCCTGGACCCCGGAGGAGCCAGCTACAGCTGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCA
GGCATCTGGGTGGCCCCTGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGA
CTTCCAGTTGCTGCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCACGGGGCTTCCACT
GCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACTCCGTGGGTGCCATCCAGTGCCCTGATAGTC
AGTTCGAATGCCCGGACTTCTCCACGTGCTGTGTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGG
CTTCCTGCTGTGAAGACAGGGTGCACTGCTGTCCGCACGGTGCCTTCTGCGACCTGGTTCACACCCGCTGCATCA
CACCCACGGGCACCCACCCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTGGCCTTGTCCAGCT
CGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACCTGCTGTGAGCTGCCCAGTGGGAAGTATG
GCTGCTGCCCAATGCCCAACGCCACCTGCTGCTCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACC
TGATCCAGAGTAAGTGCCTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGG
GGGATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAGTCGGGGGCCTGGG
GCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACACTGCTGTCCCGCGGGGTTTACGTGTGACA
CGCAGAAGGGTACCTGTGAACAGGGGCCCCACCAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGC
CAGACCCACAAGCCTTGAAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCC
AACTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCACCAGCACTGCTGCC
CCCAGGGCTACACGTGTGTAGCTGAGGGGCAGTGTCAGCGAGGAAGCGAGATCGTGGCTGGACTGGAGAAGATGC
CTGCCCGCCGGGCTTCCTTATCCCACCCCAGAGACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGGCAGA
CCTGCTGCCCGAGCCTGGGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGC
ACTGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTCTCTGCCCAGCCTG
CCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAGTGTGGGGAAGGACACTTCTGCCATGATA
ACCAGACCTGCTGCCGAGACAACCGACAGGGCTGGGCCTGCTGTCCCTACCGCCAGGGCGTCTGTTGTGCTGATC
GGCGCCACTGCTGTCCTGCTGGCTTCCGCTGCGCAGCCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCT
GGGACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG**TGA**GGGACAGTACTGAAGACTCTGCAGCCCTCGG
GACCCCACTCGGAGGGTGCCCTCTGCTCAGGCCTCCCTAGCACCTCCCCCTAACCAAATTCTCCCTGGACCCCAT
TCTGAGCTCCCCATCACCATGGGAGGTGGGGCCTCAATCTAAGGCCTTCCCTGTCAGAAGGGGGTTGTGGCAAAA
GCCACATTACAAGCTGCCATCCCCTCCCCGTTTCAGTGGACCCTGTGGCCAGGTGCTTTTCCCTATCCACAGGGG
TGTTTGTGTGTGTGCGCGTGTGCGTTTCAATAAAGTTTGTACACTTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 4846

MWTLVSWVALTAGLVAGTRCPDGQFCPVACCLDPGGASYSCCRPLLDKWPTTLSRHLGGPCQVDAHCSAGHSCIF
TVSGTSSCCPFPEAVACGDGHHCCPRGFHCSADGRSCFQRSGNNSVGAIQCPDSQFECPDFSTCCVMVDGSWGCC
PMPQASCCEDRVHCCPHGAFCDLVHTRCITPTGTHPLAKKLPAQRTNRAVALSSSVMCPDARSRCPDGSTCCELP
SGKYGCCPMPNATCCSDHLHCCPQDTVCDLIQSKCLSKENATTDLLTKLPAHTVGDVKCDMEVSCPDGYTCCRLQ
SGAWGCCPFTQAVCCEDHIHCCPAGFTCDTQKGTCEQGPHQVPWMEKAPAHLSLPDPQALKRDVPCDNVSSCPSS
DTCCQLTSGEWGCCPIPEAVCCSDHQHCCPQGYTCVAEGQCQRGSEIVAGLEKMPARRASLSHPRDIGCDQHTSC
PVGQTCCPSLGGSWACCQLPHAVCCEDRQHCCPAGYTCNVKARSCEKEVVSAQPATFLARSPHVGVKDVECGEGH
FCHDNQTCCRDNRQGWACCPYRQGVCCADRRHCCPAGFRCAARGTKCLRREAPRWDAPLRDPALRQLL

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FIGURE 4847

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GGCTAGGTGCGCTGCGAGCGCGCGGAGCCACGAGGGCGGACGGACGTAATGGGCCCGCCTGGCCCTGGGCGCCGC
GCCGCACGAGCACCAGCCTAGAGCCAGGACTGAAGCTTCAAGATGGCTGACCAGGACCCTGCGGGCATCAGCCCC
CTCCAGCAAATGGTGGCCTCAGGCACCGGGGCTGTGGTTACCTCTCTCTTCATGACACCCCTGGACGTGGTGAAG
GTTCGCCTGCAGTCTCAGCGGCCCTCCATGGCCAGCGAGCTGATGCCTTCCTCCAGACTGTGGAGCCTCTCCTAT
ACCAAATGGAAGTGCCTCCTGTATTGCAATGGTGTCCTGGAGCCTCTGTACCTGTGCCCAAATGGTGCCCGCTGT
GCCACCTGGTTTCAAGACCCTACCCGCTTCACTGGCACCATGGATGCCTTCGTGAAGATCGTGAGGCACGAGGGC
ACCAGGACCCTCTGGAGCGGCCTCCCCGCCACCCTGGTGATGACTGTGCCAGCTACCGCCATCTACTTCACTGCC
TATGACCAACTGAAGGCCTTCCTGTGTGGTCGAGCCCTGACCTCTGACCTCTACGCACCCATGGTGGCTGGCGCG
CTGGCCCGCCTGGGCACCGTGACTGTGATCAGCCCCCTGGAGCTTATGCGGACAAAGCTGCAGGCTCAGCATGTG
TCGTACCGGGAGCTGGGTGCCTGTGTTCGAACTGCAGTGGCTCAGGGTGGCTGGCGCTCACTGTGGCTGGGCTGG
GGCCCCACTGCCCTTCGAGATGTGCCCTTCTCAGCCCTGTACTGGTTCAACTATGAGCTGGTGAAGAGCTGGCTC
AATGGGTTCAGGCCGAAGGACCAGACTTCTGTGGGCATGAGCTTTGTGGCTGGTGGCATCTCAGGGACGGTGGCT
GCAGTGCTGACTCTACCCTTTGACGTGGTAAAGACCCAACGCCAGGTCGCTCTGGGAGCGATGGAGGCTGTGAGA
GTGAACCCCCTGCATGTGGACTCCACCTGGCTGCTGCTGCGGAGGATCCGGGCCGAGTCGGGCACCAAGGGACTC
TTTGCAGGCTTCCTTCCTCGGATCATCAAGGCTGCCCCCTCCTGTGCCATCATGATCAGCACCTATGAGTTCGGC
AAAAGCTTCTTCCAGAGGCTGAACCAGGACCGGCTTCTGGGCGGCTGAAAGGGGCAAGGAGGCAAGGACCCCGTC
TCTCCCACGGATGGGGGAGAGGGCAGGAGGAGACCCAGCCAAGTGCCTTTTCCTCAGCACTGAGGGAGGGGGCTTG
TTTCCCTTCCCTCCCGGCGACAAGCTCCAGGGCAGGGCTGTCCCTCTGGGCGGCCCAGCACTTCCTCAGACACAA
CTTCTTCCTGCTGCTCCAGTCGTGGGGATCATCACTTACCCACCCCCCAAGTTCAAGACCAAATCTTCCAGCTGC
CCCCTTCGTGTTTCCCTGTGTTTGCTGTAGCTGGGCATGTCTCCAGGAACCAAGAAGCCCTCAGCCTGGTGTAGT
CTCCCTGACCCTTGTTAATTCCTTAAGTCTAAAGATGATGAACTTCAAAAAAAAAA
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FIGURE 4848

MADQDPAGISPLQQMVASGTGAVVTSLFMTPLDVVKVRLQSQRPSMASELMPSSRLWSLSYTKWKCLLYCNGVLE
PLYLCPNGARCATWFQDPTRFTGTMDAFVKIVRHEGTRTLWSGLPATLVMTVPATAIYFTAYDQLKAFLCGRALT
SDLYAPMVAGALARLGTVTVISPLELMRTKLQAQHVSYRELGACVRTAVAQGGWRSLWLGWGPTALRDVPFSALY
WFNYELVKSWLNGFRPKDQTSVGMSFVAGGISGTVAAVLTLPFDVVKTQRQVALGAMEAVRVNPLHVDSTWLLLR
RIRAESGTKGLFAGFLPRIIKAAPSCAIMISTYEFGKSFFQRLNQDRLLGG

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FIGURE 4849

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GGAGCCGTCACCCCGGGCGGGGACCCAGCGCAGGCAACTCCGCGCGGCGGCCCGGCCGAGGGAGGGAGCGAGCGG
GCGGGCGGGCAAGCCAGACAGCTGGGCCGGAGCAGCCGCGGGCGCCCGAGGGGCCGAGCGAGATTGTAAACCATG
GCTGTGTGGATACAAGCTCAGCAGCTCCAAGGAGAAGCCCTTCATCAGATGCAAGCGTTATATGGCCAGCATTTT
CCCATTGAGGTGCGGCATTATTTATCCCAGTGGATTGAAAGCCAAGCATGGGACTCAGTAGATCTTGATAATCCA
CAGGAGAACATTAAGGCCACCCAGCTCCTGGAGGGCCTGGTGCAGGAGCTGCAGAAGAAGGCAGAGCACCAGGTG
GGGGAAGATGGGTTTTTACTGAAGATCAAGCTGGGGCACTATGCCACACAGCTCCAGAACACGTATGACCGCTGC
CCCATGGAGCTGGTCCGCTGCATCCGCCATATATTGTACAATGAACAGAGGTTGGTCCGAGAAGCCAACAATGGT
AGCTCTCCAGCTGGAAGCCTTGCTGATGCCATGTCCCAGAAACACCTCCAGATCAACCAGACGTTTGAGGAGCTG
CGACTGGTCACGCAGGACACAGAGAATGAGTTAAAAAAGCTGCAGCAGACTCAGGAGTACTTCATCATCCAGTAC
CAGGAGAGCCTGAGGATCCAAGCTCAGTTTGGCCCGCTGGCCCAGCTGAGCCCCCAGGAGCGTCTGAGCCGGGAG
ACGGCCCTCCAGCAGAAGCAGGTGTCTCTGGAGGCCTGGTTGCAGCGTGAGGCACAGACACTGCAGCAGTACCGC
GTGGAGCTGGCCGAGAAGCACCAGAAGACCCTGCAGCTGCTGCGGAAGCAGCAGACCATCATCCTGGATGACGAG
CTGATCCAGTGGAAGCGGCGGCAGCAGCTGGCCGGGAACGGCGGGCCCCCCGAGGGCAGCCTGGACGTGCTACAG
TCCTGGTGTGAGAAGTTGGCCGAGATCATCTGGCAGAACCGGCAGCAGATCCGCAGGGCTGAGCACCTCTGCCAG
CAGCTGCCCATCCCCGGCCCAGTGGAGGAGATGCTGGCCGAGGTCAACGCCACCATCACGGACATTATCTCAGCC
CTGGTGACCAGCACATTCATCATTGAGAAGCAGCCTCCTCAGGTCCTGAAGACCCAGACCAAGTTTGCAGCCACC
GTACGCCTGCTGGTGGGCGGGAAGCTGAACGTGCACATGAATCCCCCCCAGGTGAAGGCCACCATCATCAGTGAG
CAGCAGGCCAAGTCTCTGCTTAAAAATGAGAACACCCGCAAXXXXXXXXXXTGGTGAGATCCTGAACAACTGCTGC
GTGATGGAGTACCACCAAGCCACGGGCACCCTCAXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXGGCAGGGTGCCATTTGCCGTGCCTGACAAAGTGCTGT
GGCCGCAGCTGTGTGAGGCGCTCAACATGAAATTCAAGGCCGAAGTGCAGAGCAACCGGGGCCTGACCAAGGAGA
ACCTCGTGTTCCTGGCGCAGAAACTGTTCAACAACAGCAGCAGCCACCTGGAGGACTACAGTGGCCTGTCCGTGT
CCTGGTCCCAGTTCAACAGGGAGAATTTACCAGGACGGAATTACACTTTCTGGCAATGGTTTGACGGTGTGATGG
AAGTGTTAAAAAAACATCTCAAGCCTCATTGGAATGATGGGGCCATTTTGGGGTTTGTAAACAAGCAACAGGCCC
ATGACCTACTCATTAACAAGCCAGATGGGACCTTCCTCCTGAGATTCAGTGACTCAGAAATTGGCGGCATCACCA
TTGCTTGGAAGTTTGATTCTCAGGAAAGAATGTTTGGAATCTGATGCCTTTTACCACCAGAGACTTCTCCATTC
GGTCCCTAGCCGACCGCTTGGGAGACTTGAATTACCTTATCTACGTGTTTCCTGATCGGCCAAAAGATGAAGTAT
ACTCCAAATACTACACACCAGTTCCCTGCGAGTCTGCTACTGCTAAAGCTGTTGATGGATACGTGAAGCCACAGA
TCAAGCAAGTGGTCCCTGAGTTTGTGAACGCATCTGCAGATGCCGGGGGCGGCAGCGCCACGTACATGGACCAGG
CCCCCTCCCCAGCTGTGTGTCCCCAGGCTCACTATAACATGTACCCACAGAACCCTGACTCAGTCCTTGACACCG
ATGGGACTTCGATCTGGAGGACACAATGGACGTAGCGCGGCGTGTGGAGGAGCTCCTGGGCCGGCCAATGGACA
GTCAGTGGATCCCGCACGCACAATCGTGACCCCGCGACCTCTCCATCTTCAGCTTCTTCATCTTCACCAGAGGAA
TCACTCTTGTGGATGTTTTAATTCCATGAATCGCTTCTCTTTTGAAACAATACTCATAATGTGAAGTGTTAATAC
TAGTTGTGACCTTAGTGTTTCTGTGCATGGTGGCACCAGCGAAGGGAGTGCGAGTATGTGTTTGTGTGTGTGTGT
GTGTGTGTGTGTGTGCGTGTTTGCACGTTATGGTGTTTCTCCCTCTCACTGTCTGAGAGTTTAGTTGTAGCAG
A
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FIGURE 4850A

GCGGAGCCGGAGGAGCCGCCGCAAAGATGGAGGAGCCGTCGAGGAGGTGCTGCCGCCGCTGCCGCCGCCGCTGCT
GCCGCCGCCGCCCGCGAAGCCGGAGCTCGAGCCGCAGCGGGGATGCCGTTCTGAGTGCCTGACTGCCTCGCCCCG
AAGGATGGCCTCGGATGGGCATTAGAGGCACGGCGGCCCCGGGCTCCCGTCCCGTCCGTCTGTCTGTTATCGTCT
GTCTCTCTTGACATCACCGCAGCTCCACCCCCTCCCGTCCCAGCCCCCAACGCCAGCTTCCTGCAGGCCCAGAGC
CGGC**ATG**AACTCTCCCAACGAGTCGGATGGGATGTCAGGTCGGGAACCATCCTTGGAAATCCTGCCGCGGACTTC
TCTGCACAGCATCCCTGTGACAGTGGAGGTGAAGCCGGTGCTGCCAAGAGCCATGCCCAGTTCCATGGGGGGTGG
GGGTGGAGGCAGCCCCAGCCCTGTGGAGCTACGGGGGGCTCTGGTGGGCTCTGTGGACCCCACACTGCGGGAGCA
GCAACTGCAGCAGGAGCTCCTGGCGCTCAAGCAGCAGCAGCAGCTGCAGAAGCAGCTCCTGTTCGCTGAGTTCCA
GAAACAGCATGACCACCTGACAAGGCAGCATGAGGTCCAGCTGCAGAAGCACCTCAAGCAGCAGCAGGAGATGCT
GGCAGCCAAGCAGCAGCAGGAGATGCTGGCAGCCAAGCGGCAGCAGGAGCTGGAGCAGCAGCGGCAGCGGGAGCA
GCAGCGGCAGGAAGAGCTGGAGAAGCAGCGGCTGGAGCAGCAGCTGCTCATCCTGCGGAACAAGGAGAAGAGCAA
AGAGAGTGCCATTGCCAGCACTGAGGTAAAGCTGAGGCTCCAGGAATTCCTCTTGTCGAAGTCAAAGGAGCCCAC
ACCAGGCGGCCTCAACCATTCCCTCCCACAGCACCCCAAATGCTGGGGAGCCCACCATGCTTCTTTGGACCAGAG
TTCCCCTCCCCAGAGCGGCCCCCCTGGGACGCCTCCCTCCTACAAACTGCCTTTGCCTGGGCCCTACGACAGTCG
AGACGACTTCCCCCTCCGCAAAAACAGCCTCTGAACCCAACTTGAAAGTGCGTTCAAGGCTAAAACAGAAGGTGGC
TGAGCGGAGAAGCAGTCCCCTCCTGCGTCGCAAGGATGGGACTGTTATTAGCACCTTTAAGAAGAGAGCTGTTGA
GATCACAGGTGCCGGGCCTGGGGCGTCGTCCGTGTGTAACAGCGCACCCGGCTCCGGCCCCAGCTCTCCCAACAG
CTCCCACAGCACCATCGCTGAGAATGGCTTTACTGGCTCAGTCCCCAACATCCCCACTGAGATGCTCCCTCAGCA
CCGAGCCCTCCCTCTGGACAGCTCCCCCAACCAGTTCAGCCTCTACACGTCTCCTTCTCTGCCCAACATCTCCCT
AGGGCTGCAGGCCACGGTCACTGTCACCAACTCACACCTCACTGCCTCCCCGAAGCTGTCGACACAGCAGGAGGC
CGAGAGGCAGGCCCTCCAGTCCCTGCGGCAGGGTGGCACGCTGACCGGCAAGTTCATGAGCACATCCTCTATTCC
TGGCTGCCTGCTGGGCGTGGCACTGGAGGGCGACGGGAGCCCCCACGGGCATGCCTCCCTGCTGCAGCATGTGCT
GTTGCTGGAGCAGGCCCGGCAGCAGAGCACCCTCATTGCTGTGCCACTCCACGGGCAGTCCCCACTAGTGACGGG
TGAACGTGTGGCCACCAGCATGCGGACGGTAGGCAAGCTCCCGCGGCATCGGCCCCTGAGCCGCACTCAGTCCTC
ACCGCTGCCGCAGAGTCCCCAGGCCCTGCAGCAGCTGGTCATGCAACAACAGCACCAGCAGTTCCTGGAGAAGCA
GAAGCAGCAGCAGCTACAGCTGGGCAAGATCCTCACCAAGACAGGGGAGCTGCCCAGGCAGCCCACCACCCACCC
TGAGGAGACAGAGGAGGAGCTGACGGAGCAGCAGGAGGTCTTGCTGGGGGAGGGGAGCCCTGACCATGCCCCGGGA
GGGCTCCACAGAGAGTGAGAGCACACAGGAAGACCTGGAGGAGGAGGACGAGGAAGAGGATGGGGAGGAGGAGGA
GGATTGCATCCAGGTTAAGGACGAGGAGGGCGAGAGTGGTGCTGAGGAGGGGCCCGACTTGGAGGAGCCTGGTGC
TGGATACAAAAAACTGTTCTCAGATGCCCAGCCGCTGCAGCCTTTGCAGGTGTACCAGGCGCCCCTCAGCCTGGC
CACTGTGCCCCACCAGGCCCTGGGCCGTACCCAGTCCTCCCCTGCTGCCCCTGGGGGCATGAAGAGCCCCCCAGA
CCAGCCCGTCAAGCACCTCTTCACCCACAGGTGTGGTCTACGACACGTTCATGCTAAAGCACCAGTGCATGTGCGG
GAACACACACGTGCACCCTGAGCATGCTGGCCGGATCCAGAGCATCTGGTCCCGGCTGCAGGAGACAGGCCTGCT
TAGCAAGTGCGAGCGGATCCGAGGTCGCAAAGCCACGCTAGATGAGATCCAGACAGTGCACTCTGAATACCACAC
CCTGCTCTATGGGACCAGTCCCCTCAACCGGCAGAAGCTAGACAGCAAGAAGTTGCTCGGCCCCATCAGCCAGAA
GATGTATGCTGTGCTGCCTTGTGGGGGCATCGGGGTGGACAGTGACACCGTGTGGAATGAGATGCACTCCTCCAG
TGCTGTGCGCATGGCAGTGGGCTGCCTGCTGGAGCTGGCCTTCAAGGTGGCTGCAGGAGAGCTCAAGAATGGATT
TGCCATCATCCGGCCCCCAGGACACCACGCCGAGGAATCCACAGCCATGGGATTCTGCTTCTTCAACTCTGTAGC
CATCACCGCAAAACTCCTACAGCAGAAGTTGAACGTGGGCAAGGTCCTCATCGTGGACTGGGACATTCACCATGG
CAATGGCACCCAGCAGGCGTTCTATAATGACCCCTCTGTGCTCTACATCTCTCTGCATCGCTATGACAACGGGAA
CTTCTTTCCAGGCTCTGGGGCTCCTGAAGAGGTTGGTGGAGGACCAGGCGTGGGGTACAATGTGAACGTGGCATG
GACAGGAGGTGTGGACCCCCCCATTGGAGACGTGGAGTACCTTACAGCCTTCAGGACAGTGGTGATGCCCATTGC
CCACGAGTTCTCACCTGATGTGGTCCTAGTCTCCGCCGGGTTTGATGCTGTTGAAGGACATCTGTCTCCTCTGGG
TGGCTACTCTGTCACCGCCAGATGTTTTGGCCACTTGACCAGGCAGCTGATGACCCTGGCAGGGGCCGGGTGGT
GCTGGCCCTGGAGGGAGGCCATGACTTGACCGCCATCTGTGATGCCTCTGAGGCTTGTGTCTCGGCTCTGCTCAG
TGTAGAGCTGCAGCCCTTGGATGAGGCAGTCTTGCAGCAAAAGCCCAACATCAACGCAGTGGCCACGCTAGAGAA
AGTCATCGAGATCCAGAGCAAACACTGGAGCTGTGTGCAGAAGTTCGCCGCTGGTCTGGGCCGGTCCCTGCGAGA
GGCCCAAGCAGGTGAGACCGAGGAGGCCGAGACTGTGAGCGCCATGGCCTTGCTGTCGGTGGGGGCCGAGCAGGC

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FIGURE 4850B

CCAGGCTGCGGCAGCCCGGGAACACAGCCCCAGGCCGGCAGAGGAGCCCATGGAGCAGGAGCCTGCCCTG<u>TGA</u>CG
CCCCGGCCCCCATCCCTCTGGGCTTCACCATTGTGATTTTGTTTATTTTTTCTATTAAAAACAAAAAGTCACACA
TTC

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FIGURE 4851

MNSPNESDGMSGREPSLEILPRTSLHSIPVTVEVKPVLPRAMPSSMGGGGGGGSPSPVELRGALVGSVDPTLREQQ
LQQELLALKQQQQLQKQLLFAEFQKQHDHLTRQHEVQLQKHLKQQQEMLAAKQQQEMLAAKRQQELEQQRQREQQ
RQEELEKQRLEQQLLILRNKEKSKESAIASTEVKLRLQEFLLSKSKEPTPGGLNHSLPQHPKCWGAHHASLDQSS
PPQSGPPGTPPSYKLPLPGPYDSRDDFPLRKTASEPNLKVRSRLKQKVAERRSSPLLRRKDGTVISTFKKRAVEI
TGAGPGASSVCNSAPGSGPSSPNSSHSTIAENGFTGSVPNIPTEMLPQHRALPLDSSPNQFSLYTSPSLPNISLG
LQATVTVTNSHLTASPKLSTQQEAERQALQSLRQGGTLTGKFMSTSSIPGCLLGVALEGDGSPHGHASLLQHVLL
LEQARQQSTLIAVPLHGQSPLVTGERVATSMRTVGKLPRHRPLSRTQSSPLPQSPQALQQLVMQQQHQQFLEKQK
QQQLQLGKILTKTGELPRQPTTHPEETEEELTEQQEVLLGEGALTMPREGSTESESTQEDLEEEDEEEDGEEEED
CIQVKDEEGESGAEEGPDLEEPGAGYKKLFSDAQPLQPLQVYQAPLSLATVPHQALGRTQSSPAAPGGMKSPPDQ
PVKHLFTTGVVYDTFMLKHQCMCGNTHVHPEHAGRIQSIWSRLQETGLLSKCERIRGRKATLDEIQTVHSEYHTL
LYGTSPLNRQKLDSKKLLGPISQKMYAVLPCGGIGVDSDTVWNEMHSSSAVRMAVGCLLELAFKVAAGELKNGFA
IIRPPGHHAEESTAMGFCFFNSVAITAKLLQQKLNVGKVLIVDWDIHHGNGTQQAFYNDPSVLYISLHRYDNGNF
FPGSGAPEEVGGGPGVGYNVNVAWTGGVDPPIGDVEYLTAFRTVVMPIAHEFSPDVVLVSAGFDAVEGHLSPLGG
YSVTARCFGHLTRQLMTLAGGRVVLALEGGHDLTAICDASEACVSALLSVELQPLDEAVLQQKPNINAVATLEKV
IEIQSKHWSCVQKFAAGLGRSLREAQAGETEEAETVSAMALLSVGAEQAQAAAAREHSPRPAEEPMEQEPAL

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FIGURE 4852

CGGAGGAGAGCGCAGGAGGAAACAGTACCGGCTGGAGGCCGGTCTTGCAGGAGCGGGGGACTGCTGGGGGCGGGG
CTTGGTGGTGACTGCTGGCGGGGCGGGGCCTGGGGCTCAGAGGGGTGGGCTTTGGAGATCAGAGGGTCGACGCTG
CTTCGTTGCCTGGACTCTGGTTTCCGCCCTGGAGCAAGCCGGGGCCTGGTCGGCAGCTGGGCCGCC**ATG**GAGTCC
ACGCTGGGCGCGGGCATCGTGATAGCCGAGGCGCTACAGAACCAGCTAGCCTGGCTGGAGAACGTGTGGCTCTGG
ATCACCTTTCTGGGCGATCCCAAGATCCTCTTTCTGTTCTACTTCCCCGCGGCCTACTACGCCTCCCGCCGTGTG
GGCATCGCGGTGCTCTGGATCAGCCTCATCACCGAGTGGCTCAACCTCATCTTCAAGTGGTTTCTTTTTGGAGAC
AGGCCCTTTTGGTGGGTCCATGAGTCTGGTTACTACAGCCAGGCTCCAGCCCAGGTTCACCAGTTCCCCTCTTCT
TGTGAGACTGGTCCAGGCAGCCCTTCTGGACACTGCATGATCACAGGAGCAGCCCTCTGGCCCATAATGACGGCC
CTGTCTTCGCAGGTGGCCACTCGGGCCCGCAGCCGCTGGGTAAGGGTGATGCCTAGCCTGGCTTATTGCACCTTC
CTTTTGGCGGTTGGCTTGTCGCGAATCTTCATCTTAGCACATTTCCCTCACCAGGTGCTGGCTGGCCTAATAACT
GGCGCTGTCCTGGGCTGGCTGATGACTCCCCGAGTGCCTATGGAGCGGGAGCTAAGCTTCTATGGGTTGACTGCA
CTGGCCCTCATGCTAGGCACCAGCCTCATCTATTGGACCCTCTTTACACTGGGCCTGGATCTTTCTTGGTCCATC
AGCCTAGCCTTCAAGTGGTGTGAGCGGCCTGAGTGGATACACGTGGATAGCCGGCCCTTTGCCTCCCTGAGCCGT
GACTCAGGGGGCTGCCCTGGGCCTGGGCATTGCCTTGCACTCTCCCTGCTATGCCCAGGTGCGTCGGGCACAGCTG
GGAAATGGCCAGAAGATAGCCTGCCTTGTGCTGGCCATGGGGCTGCTGGGCCCCCTGGACTGGCTGGGCCACCCC
CCTCAGATCAGCCTCTTCTACATTTTCAATTTCCTCAAGTACACCCTCTGGCCATGCCTAGTCCTGGCCCTCGTG
CCCTGGGCAGTGCACATGTTCAGTGCCCAGGAAGCACCGCCCATCCACTCTTCC**TGA**CTTCTTGTGTGCCTCCCT
TTCCTTTCCCTCCCACAAAGCCAACACTCTGTGACCACCACACTCCAGGAGGCAGCCCCATCCCCTTCCAGCCCC
TAAGTAGGCCCTCCCCTCCCTAAATCTGCTTCCGCACCACCTGGTCTTAGCCCCAAAGATGGGCCTTCTCTCTCC
CAGATAAGTTGGTCCTCCCTCTGCCTTTCCTCTCAAGCCCCCAAAGAGCAAAGGCAACAGCAAGACCAGCGGGTT
CTTGCAACACTGTGAGGGGCAGCCAGGGCGGCCCCAATAAAGCCCTTGAATACTT

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FIGURE 4853

MESTLGAGIVIAEALQNQLAWLENVWLWITFLGDPKILFLFYFPAAYYASRRVGIAVLWISLITEWLNLIFKWFL
FGDRPFWWVHESGYYSQAPAQVHQFPSSCETGPGSPSGHCMITGAALWPIMTALSSQVATRARSRWVRVMPSLAY
CTFLLAVGLSRIFILAHFPHQVLAGLITGAVLGWLMTPRVPMERELSFYGLTALALMLGTSLIYWTLFTLGLDLS
WSISLAFKWCERPEWIHVDSRPFASLSRDSGAALGLGIALHSPCYAQVRRAQLGNGQKIACLVLAMGLLGPLDWL
GHPPQISLFYIFNFLKYTLWPCLVLALVPWAVHMFSAQEAPPIHSS

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FIGURE 4854

GGCACGAGGCCGCAGCGGACTGCCCCTTTCCCAAGATGGCGTCGAAGATAGGTTCGAGACGGTGGATGTTGCAGCT
GATCATGCAGTTGGGTTCGGTGCTGCTCACACGCTGCCCCTTTTGGGGCTGCTTCAGCCAGCTCATGCTGTACGC
TGAGAGGGCTGAGGCACGCCGGAAGCCCGACATCCCAGTGCCTTACCTGTATTTCGACATGGGGGCAGCCGTGCT
GTGCGCTAGTTTCATGTCCTTTGGCGTGAAGCGGCGCTGGTTCGCGCTGGGGGCCGCACTCCAATTGGCCATTAG
CACCTACGCCGCCTACATCGGGGGCTACGTCCACTACGGGGACTGGCTGAAGGTCCGTATGTACTCGCGCACAGT
TGCCATCATCGGCGGCTTTCTTGTGTTGGCCAGCGGTGCTGGGGGAGCTGTACCGCCGGAAACCTCGCAGCCGCTC
CCTGCAGTCCACCGGCCAGGTGTTCCTGGGTATCTACCTCATCTGTGTGGCCTACTCACTGCAGCACAGCAAGGA
GGACCGGCTGGCGTATCTGAACCATCTCCCAGGAGGGGAGCTGATGATCCAGCTGTTCTTCGTGCTGTATGGCAT
CCTGGCCCTGGCCTTTCTGTCAGGCTACTACGTGACCCTCGCTGCCCAGATCCTGGCTGTACTGCTGCCCCCTGT
CATGCTGCTCATTGATGGCAATGTTGCTTACTGGCACAACACGCGGCGTGTTGAGTTCTGGAACCAGATGAAGCT
CCTTGGAGAGAGTGTGGGCATCTTCGGAACTGCTGTCATCCTGGCCACTGATGGCTGAGTTTTATGGCAAGAGGC
TGAGATGGGCACAGGGAGCCACTGAGGGTCACCCTGCCTTCCTCCTTGCTGGCCCAGCTGCTGTTTATTTATGCT
TTTTGGTCTGTTTGTTTGATCTTTTGCTTTTTTAAAATTGTTTTTTGCAGTTAAGAGGCAGCTCATTTGTCCAAA
TTTCTGGGCTCAGCGCTTGGGAGGGCAGGAGCCCTGGCACTAATGCTGTACAGGTTTTTTTCCTGTTAGGAGAGC
TGAGGCCAGCTGCCCACTGAGTCTCCTGTCCCTGAGAAGGGAGTATGGCAGGGCTGGGATGCGGCTACTGAGAGT
GGGAGAGTGGGAGACAGAGGAAGGAAGATGGAGATTGGAAGTGAGCAAATGTGAAAAATTCCTCTTTGAACCTGG
CAGATGCAGCTAGGCTCTGCAGTGCTGTTTGGAGACTGTGAGAGGGAGTGTGTGTGTTGACACATGTGGATCAGG
CCCAGGAAGGGCACAGGGGCTGAGCACTACAGAAGTCACATGGGTTCTCAGGGTATGCCAGGGGCAGAAACAGTA
CCGGCTCTCTGTCACTCACCTTGAGAGTAGAGCAGACCCTGTTCTGCTCTGGGCTGTGAAGGGGTGGAGCAGGCA
GTGGCCAGCTTTGCCCTTCCTGCTGTCTCTGTTTCTAGCTCCATGGTTGGCCTGGTGGGGGTGGAGTTCCCTCCC
AAACACCAGACCACACAGTCCTCCAAAAATAAACATTTATATAGACAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4855

MASKIGSRRWMLQLIMQLGSVLLTRCPFWGCFSQLMLYAERAEARRKPDIPVPYLYFDMGAAVLCASFMSFGVKR
RWFALGAALQLAISTYAAYIGGYVHYGDWLKVRMYSRTVAIIGGFLVLASGAGELYRRKPRSRSLQSTGQVFLGI
YLICVAYSLQHSKEDRLAYLNHLPGGELMIQLFFVLYGILALAFLSGYYVTLAAQILAVLLPPVMLLIDGNVAYW
HNTRRVEFWNQMKLLGESVGIFGTAVILATDG

5264/6881

FIGURE 4856

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AAAGGACCGAGGCGTGCAGCGGACAGCAGATGGATCCCGCGGCCAGCAGCTGCATGAGGAGCCTCCAGCCCCCAG
CCCCTGTCTGGGGCTGCCTTCGAAACCCCCACTCGGAAGGCAATGGGGCCTCAGGGCTACCCCACTACCCGCCCA
CCCCGTTCTCCTTCCACCAGAAACCAGACTTCCTGGCGACAGCGACGGCAGCGTACCCTGACTTCTCAGCCTCCT
GCCTGGCAGCCACCCCACACAGCCTGCCCCAGGAGGAGCACATCTTCACTGAGCAGCACCCCGCTTTCCCACAGT
CCCCCAACTGGCACTTCCCTGTCTCAGACGCCCGGCGCAGGCCCAACTCAGGCCCGGCAGGGGGTTCCAAGGAAA
TGGGGACCAGCAGCCTGGGCCTGGTGGACACCACAGGAGGCCCAGGCGATGACTACGGGGTGCTTGGGAGCACTG
CCAATGAGACAGAGAAGAAATCATCCAGGCGGAGAAAGGAGAGTTCAGACAACCAGGAGAACAGAGGGAAGCCGG
AGGGCAGCAGCAAAGCCCGCAAGGAGAGGACGGCCTTCACCAAGGAGCAGCTGCGAGAGCTGGAGGCAGAGTTTG
CCCATCATAACTACCTGACTCGGCTCCGCAGATATGAGATTGCGGTAAACCTGGACCTCTCTGAGCGCCAGGTCA
AAGTGTGGTTCCAGAACCGAAGGATGAAGTGGAAGCGTGTGAAGGGAGGTCAGCCCATCTCCCCCAATGGGCAGG
ACCCTGAGGATGGGGACTCCACAGCCTCTCCAAGTTCAGAGTGAGATTCTGCATGGAGGAAAAATGACTAAGGAC
TGAGCCCCCTACCCAACTACCCCCACCCCAATCCCACCTTCACCCTCTTCCTTCCCCAGCCAGGGCAGCCTCTCC
ACATCTTTCCCTGACTCTTGGATATGAAACTGCCCAGCATTCCTGGGAGTCTTAGGATTTTCTAGGAAGTTCTGT
CCAGCCTCTTAGCAGCCTCTTCCCTAGGGCCTTTGCTCCCACACTCTCATGGAATCAGACAGAGATCCTACCGGG
CCGGATGAATCTGGAAACAGCTTCAGAGATACTGCTTCTCAGCGTCTCTTGGCTGCCACCCATGCCTCCTCCTAC
CGCTGTTCTCCTAGGTCAGCCAGGCCTCCTCCTGGTCTGGACACCACCTGGCCTGGTGGGAGAGGAGCTTTGGAA
CCAGCTGGCGACTCGGAAAGTAAATGCTTCAAAAGGAAGGAAATGACAGAGACACACGCCCTTGCCCACCTTCCT
CTGTAGGCTGCACATCTGAGGCTTTGGGGCCCCTTAGTTGTCCCGAAACCCCAAGAAAAATCAGAATGAGGAGAG
TCAAGGACAGCAACTCAGCTGCTGCAAGCCAGAAACACATCCCTGTCTCCAAATTTGTTGGCTAAGTGGAGACAC
TTCTGAGAACTGACTAGAGAAGACAGAAAAATAGCCCGATGTAGGTTTCGGTGTCCCCATATAGGCCCGTCCACA
CAGGCTTGACTGGGTGGACAAGAATGAACCCATGACAGCACCTGCTGCTTCAAAATCAAAATCAATTTAGGGATA
CAGCAGGGGCTGTTGGGCTGTGCTCCAGAGAAAAGGAGCAGCTACTCCTTTTAAATCCACGATTTCTGGATTGAA
AACCTGTCCAGATGCTGAGTTGTTGGGCTGAACAACTAGGAGCTGAAAACAACGTAGAGGCTGGAAAGTGTCCCC
TGCATTCTGGAGGGGAGGGGAGATAATAAGGAGGGCTGCTGGGTGAGGGCCTGGAGATGTGGAACCCTGGAGTGG
AAGGTTCTCCAGTGACAGTGTCCTGTGACTGCAAAAGGGGACAAGAAAATCCCTCTTCCTCCATGGGATGGATTT
AAGCTCTTGCTGTGTGTTCTACAAATGCTGTTATTGTGGGAGGAAATGCTAGGTTTTTGTGTGTGGACTGCCCAG
ACCTCAGCCAGGTCTTCTGGAGATGACATTTGAGGACTGATGGCCAAAGAGCATGGGGGACTGAAGCCCTGGCTG
CCTCAGCGCTCTGTCTCCCAACACCAGCTGGTGTTGCAGAGGGAGGTCAACGTGAGTTTGGATCTCTTGTACGCA
GATGTAATCATTCACATGTAAAAATAACCCCACCTCCCCACCCCAAAAAGGGCAAGAGCTGTGGAAAATGATTGC
CAAATGAGATGGCTGGTTAGAGCATGATTTTTTCTAAAGCATACTTCATATATTTCTTAAGATTACATCAAGCT
AATTGTGCGAGCTCAATTCACTTTGTAAGAAAACTCTCGGAGAAATAAAATCAATAAAAAGC
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5265/6881
FIGURE 4857

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GAGCGGCCCGAGGAGGACGCAGCGGCGCTGGAGCTTTCGTCGGACGAGGCGGTGGAGGTTGAGGAGGTTATTGAG
GAGTCCCGCGCAGAGCGTATCAAGCGCAGACACTGCGGCGCGTGGACGACTTCAAGAAGGCCTTCTCCAAGGAGA
AGATGGAGAAGACCAAGGTGCGTACCCGCGAGAACCTGGAGAAGACGCGCCTCAAGACCAAGGAAAACCTGGAGA
AGACGCGGCACACCCTGGAGAAGCGCATGAACAAGCTGGGCACGCGCCTGGTGCCCGCCGAGCGGCGCGAGAAAC
TGAAGACGTCGCGGGACAAGTTGCGCAAATCCTTCACGCCCGACCACGTGGTGTACGCGCGCTCCAAGACCGCGG
TCTACAAGGTGCCCACCCTTCACCTTCCACGTCAAGAAGATCCGCGAGGGCCAGGTGGAAGTGCTCAAGGCCACCG
AGATGGTGGAGGTGGGCGCCGACGACGACGAGGGCGGCGGAGCGCGGGGAGGCCGGCGACCTGCGGCGCGGGAGC
AGCCCCGACGTGCACGCGCTGCTGGAGATCACCGAGGAGTCGGACGCCGTGCTGGTGGACAAGAGCGACAGCGAC
TGAGCCGCCCCCGCTGCCACCCACCCCATTCCTCGCTCCTTCCGAACTTCCTCTTTCGCATTCTCTCTCGGCTCG
AGCTGGCTGAGATTTTTCTAAATTGAAAACACGCCCCCCTCCCCACACCTCCAGGAACTCCACTCCCAGTCTTAG
AGCTGTTAGGACCCGATGGGGAGGCAGCCCCCGCAGTGGACAGCCCCCGCTTGGACACAGTCCGAGTGGAATGGG
AAGGGAATGGTCAATCCCTGTCCTGGTTGTCCAAGTCGGGATCTCAGAGGAAATTGCAGTGATTCCACGGTTAGG
CCCCCCTGGGGGGGCTGCCTTCCCCTCAGCCTCTCCCCACACCACCCACCCAGCTGCTGTCATTCCGCTCACTGA
GCTCTTCTTCATTCTCACCCTGATCCCTGGGGGACTCAAAGCCAAAACTGCCCAAAGAGGAAAGATTGAATCCTA
AAGGGGATCCTTGCCCCCATGGGAGGCCCCCTACTAGAAGGACGTGAAAGCAGCTTTTGGGGGAAACTGAGGCAG
TGGGGAAGACAGAGCAGAATGAGCCCTCACCCTGGCTGGGGGTCCAGCACAGGCTGTATCTGCAGAGGGTCCCAG
AGGAACGCTGGAGCCAAGAGAAGCCCTGGGAAGGAGGGGTGGGGAACGACATGCATGTGAGGGATGGCACACTGA
TGTGTTTATGCACCTGTACACAGGAGCGCATGGCCATGGCTTTGGAAAGGAGAATGGAAAAATAGAAGAAGGTCG
GCCGGGCTTGGTGGCTTATGCCTGTAACCCCAGCACTTTGGGAGGCCGAGGTGGGCGGATCACCTGAGGTCAGGA
GTTCGGGACCAGCCTGGCAAACACCCCATCTCTACTAAGCGAAAACCCATCTCTACTAAAATTACAAAAATTAGC
TGGGCATGATTGCGCATGCCTGTAATCCCAGCTACTTTGGAGGCTGAGGTGGGGAGAATTGCTTGAACCTGGGAG
GTGGAGGTTGCAGTGAGCCAAGGTCGCGACACTGCACTCCAGCCTGGGTGACAGAGTGAGACTCCATCTCAACAG
AAGGAAAAAAAAGGAAAATAGGAGAAGGTGGAAATGGGTGAAGAGAGAAGTCCCCTCACTAGCTGCATGAGAAAT
CTATCTTACTGTGGTTCTCCATGGGCAGCAGGACCATTTTTCAGAATCAAGAGGGAGGACAGTGTGAGAAGGCGA
TGATCCAAAGAAGACAGAGAGGTCAGCCCCCACCCGATCCCTCAAATGGGCTCTTGGAGGCACCCCCAGGGGCAGC
CCATTTCTCAAAGTCCAGAAAATTAGGGTCCCAGAAGGGGGCAGCAGCAGGCTGGGAGTTAGGAGGGAGAGCAGG
GTGCCGGCCCTGCCACCAAGTTGAGAGCTGGAGGGGAGGTGGGGAGAGAACATCACAGAGCAGCCAGCCCTGGTT
CACTCCTGGCAGTTTCTTCTCAAGCTCCTTCCCTAGGAGCATGGTGGCACGTGCCTGTGGTCTCAGCTACTTGGG
AGGCTGAGGCGGGAGGATCGCCAGAGCCCAGGAGTTTGAGGCTGCAGTGAGCTATGAGGGTGCCTCTGTGCTCCA
TCCTAGGCAACAGAGTGAGACGCTGTTTAAAAAGGAAAAAATCCTTCCCTAGAGCTAGTATCCTAAAGCTGCAGA
GCTAGCCCAGACCTCATTGGTTTCCTTGTCCTTGGGGTGCTTTTCCTGAATCTTTGGGGGTGAAGGGAGTGTTGC
TCCCAGTCCAGAGGCCTGATTCTGTTCGGACTGGGTTCTCAAGACACGACCAGGTTCTCAAGACACGAGTCCCCT
TGTTCCTCCCCATTAAAGGGGGTTTGTCAGAAGCAAGAACAGCCCCTCTCCCCAGTCACAGCCTGAAGGGAGGCC
CCGAGAGCTTCCTCCTTCCCCCCACCTGCTCCTTACTTCTCTGCCCTGCTTTTTAGAACTGCAGTTCATTGTTT
TAAGGGATTGGGGGAGGGAGCCTGGGGACACAAACCTTTTATACAATACAAAGCTTTGCTTTTTTTTTTTTTTTC
TTCCTTTTCCCTTTCTCGGTTCTCTTCTCTCCTCTGAATGGCTGAAGACCCCTCTGCCGAGGGAGGTTGGGGATT
GTGGGACAAGGTCCCTTGGTGCTGATGGCCTGAAGGGGCCTGAGCTGTGGGCAGATGCAGTTTTCTGTGGGCTTG
GGGAACCTCTCACGTTGCTGTGTCCTGGTGAGCAGCCCGACCAATAAACCTGCTTTTCT
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FIGURE 4858

MEKTKVRTRENLEKTRLKTKENLEKTRHTLEKRMNKLGTRLVPAERREKLKTSRDKLRKSFTPDHVVYARSKTAV
YKVPPFTFHVKKIREGQVEVLKATEMVEVGADDDEGGGARGGRRPAAREQPRRARAAGDHRGVGRRAGGQERQRL
SRPRCHPPHSSLLPNFLFRILSRLELAEIFLN

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FIGURE 4859

ATGGCCGTATTCCGGTCGGGTCTCCTGGTGCTGACGACGCCGCTGGCCTCCCTAGCCCCTCGCCTGGCCTCCATC
CTGACCTCGGCGGCCCGGCTGGTGAATCACACACTCTATGTTCACCTGCAGCCGGGCATGAGCCTGGAGGGCCCG
GCTCAGCCCCAGTACAGCCCCGTGCAGGCCACGTTTGAGGTTCTTGATTTCATCACGCACCTCTATGCTGGCGCC
GACGTCCACAGGCACTTGGACGTCAGAATCCTACTGACCAATATCCGAACCAAGAGCACCTTTCTCCCTCCCCTG
CCCACCTCAGTCCAGAATCTCGCCCACCCGCCAGAAGTCGTGTTGACAGATTTCCAGACCCTGGATGGAAGCCAG
TACAACCCGGTCAAACAGCAGCTAGTGCGTTACGCCACCAGCTGTTACAGCTGTTGTCCGCGACTGGCCTCGGTG
CTGCTATACTCCGATTATGGGATAGGAGAAGTGCCCGTGGAGCCCCTGGATGTCCCCTTACCCTCCACGATCAGG
CCAGCTTCCCCCGTGGCCGGGTCTCCAAAGCAGCCGGTGCGTGGCTACTACCGTGGCGCTGTCGGTGGCACGTTT
GACCGCCTGCACAACGCCCACAAGGTGTTGCTCAGTGTCGCGTGCATCCTGGCCCAGGAGCAGCTTGTGGTGGGA
GTAGCAGACAAAGATCTGTTGAAGAGCAAGTTGCTCCCTGAGCTGCTCCAACCTTATACAGAACGTGTGGAACAT
CTGAGTGAATTCCTGGTGGACATCAAGCCCTCCTTGACTTTTGATGTCATCCCCCTGCTGGACCCCTATGGGCCC
GCTGGCTCTGACCCCTCCCTGGAGTTCCTGGTGGTCAGCGAGGAGACCTATCGTGGGGGGGATGGCCATCAACCGC
TTCCGCCTTGAGAATGACCTGGAGGAACTTGCTTTGTACCAGATCCAGCTGCTGAAGGACCTCAGACATACGGAG
AATGAAGAGGACAAAGTCAGCTCCTCCAGCTTCCGCCAGCGAATGTTGGGGAACCTGCTTCGGCCTCCATATGAA
AGGCCAGAGCTCCCCACATGTCTCTATGTAATTGGGCTGACTGGCATCAGTGGCTCTGGGAAGAGCTCAATAGCT
CAGCGACTGAAGGGCCTGGGGGCGTTTGTCATTGACAGTGACCACCTGGGTCATCGGGCCTATGCCCCAGGTGGC
CCTGCCTACCAGCCTGTGGTGGAGGCCTTTGGAACAGATATTCTCCATAAAGATGGCATCATCAACAGGAAGGTC
CTAGGCAGCCGGGTGTTTGGGAATAAGAAGCAGCTGAAGATACTCACGGACATTATGTGGCCAATTATCGCAAAG
CTGGCCCGAGAGGAGATGGATCGGGCTGTGGCTGAGGGAAAGCGTGTGTGTGTGATTGATGCCGCTGTGTTGCTT
GAAGCCGGCTGGCAGAACCTGGTCCATGAGGTGTGGACTGCTGTCATCCCAGAGACTGAGGCTGTAAGACGCATT
GTGGAGAGGGATGGCCTCAGTGAAGCCGCGGCTCAAAGCCGGCTGCAGAGCCAGATGAGCGGGCAGCAGCTTGTG
GAACAGAGCCACGTGGTGCTCAGCACCTTGTGGGAGCCGCATATCACCCAACGCCAGGTGGAGAAAGCCTGGGCC
CTCTTGCAGAAGCGCATTCCCAAGACTCATCAGGCCCTCGACTGA

FIGURE 4860

MAVFRSGLLVLTTPLASLAPRLASILTSAARLVNHTLYVHLQPGMSLEGPAQPQSSPVQATFEVLDFITHLYAGA
DVHRHLDVRILLTNIRTKSTFLPPLPTSVQNLAHPPEVVLTDFQTLDGSQYNPVKQQLVRYATSCYSCCPRLASV
LLYSDYGIGEVPVEPLDVPLPSTIRPASPVAGSPKQPVRGYYRGAVGGTFDRLHNAHKVLLSVACILAQEQLVVG
VADKDLLKSKLLPELLQPYTERVEHLSEFLVDIKPSLTFDVIPLLDPYGPAGSDPSLEFLVVSEETYRGGMAINR
FRLENDLEELALYQIQLLKDLRHTENEEDKVSSSSFRQRMLGNLLRPPYERPELPTCLYVIGLTGISGSGKSSIA
QRLKGLGAFVIDSDHLGHRAYAPGGPAYQPVVEAFGTDILHKDGIINRKVLGSRVFGNKKQLKILTDIMWPIIAK
LAREEMDRAVAEGKRVCVIDAAVLLEAGWQNLVHEVWTAVIPETEAVRRIVERDGLSEAAAQSRLQSQMSGQQLV
EQSHVVLSTLWEPHITQRQVEKAWALLQKRIPKTHQALD

FIGURE 4861

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CCTCGCCGCAGGGGGCCCGCCCGCTGGCCCGTTTCCGGTCCGGTGGGTACAAGATGACGGAGCCGGGCGCCTCTC
CCGAGGACCCTTGGGTCAAGGCAAGCCCCGTGGGCGCGCACGCCGGCGAGGGGAGGGCGGGTCGGGCTCGTGCAC
GTAGGGGGGCCGGAAGACGAGGGGCTTCCCTCCTGTCCCCAAAGTCCCCCACGCTCTCCGTGCCCCGGGGCTGCA
GAGAAGACAGCTCTCACCCCGCGTGTGCCAAGGTGGAGTATGCCTACAGCGACAACAGCCTGGACCCCGGGCTTT
TTGTAGAAAGCACCCGCAAGGGGAGTGTAGTGTCCAGAGCTAATAGCATCGGTTCCACCAGTGCCTCTTCTGTCC
CCAACACAGATGATGAGGACAGTGATTACCACCAGGAGGCCTACAAGGAGTCCTACAAAGACCGGCGGCGGCGCG
CACACACTCAGGCTGAGCAGAAGAGGAGGGACGCCATCAAGAGAGGCTATGATGACCTTCAGACCATCGTCCCCA
CTTGCCAGCAGCAGGACTTCTCCATTGGCTCCCAAAAGCTCAGCAAAGCCATCGTTCTACAAAAGACCATTGACT
ACATTCAGTTTTTGCACAAGGAGAAGAAAAAGCAGGAGGAGGAGGTGTCCACGTTACGCAAGGATGTCACCGCCC
TAAAGATCATGAAAGTGAACTATGAGCAGATTGTGAAGGCACACCAGGACAACCCCCATGAAGGGGAGGACCAGG
TCTCTGACCAGGTCAAGTTCAACGTGTTTCAAGGCATCATGGATTCCCTGTTCCAGTCCTTCAATGCCTCCATCT
CAGTGGCCAGCTTCCAGGAGCTGTCAGCGTGTGTCTTCAGCTGGATCGAGGAGCACTGTAAGCCTCAGACCCTGC
GGGAGATTGTGATTGGCGTCCTGCACCAATTGAAAAACCAGCTTTACTGACCGGTTCTTGGAAACCTGGAGAACA
GCCAACAAGAGGCCCTTGAATCTCTACGTGGCCACTGAACTGCTGGGCCCGGGAGACTGGACTACAACACCTCAC
ACTGGTCAGCTGGTTTCTACTTGGTGTTTGGTTTTTCCCAGCCCCATTTTATCTTCAGCGGAGCCGCGGTGTTTG
TTTTGTGAAAGCTTCTGATTAATTTATTATATTGACGATAAAACTCAAACCTACCCAGCCTTCCCCCCACTCCAT
GGAAGTCCTTGGGATGGCGTCTGCTCTGGACACCCCAAAGAGCTCCTGCCCTCTCAGCCCTTTATTCAAGCCTC
AGATTTCTGCTCATGATCTACATAGATTTGGAAACTGTTTTCCTCTGTTTGGTCTCTTGGGCAACATTTTTGGC
CCAAGTTTGGGCAACATTTGGCCCAAGTTTGGGCATTTTGGCAGTAGCTGTATGGGAGAAAAAGAGTAAGAGGAA
ATATTCCCACAGCCATGAAGGGTGAAAGGGCACCTTGTGCCTAGACTAGGGCTGCCTGGTCAGTCCCAGGTGAGG
CCAAGGGCTTTCTGGCCATCTCAGGGAGGGGCCACCAGGTTCCTCCCCTCACCCCATATTCCATCACCTTCCTCC
TCTGCTCTGGGTGGTAAGGGAAGCCCTCCCGGTTCCCACAGGCTATGATGCTGCATGGCAGAGGCAGGTATAACA
CAGCACTACATATTGGAAATTTTTTATTTTTCTAAATACCAATGCAGTTTGCTACGGTTACAATTTTGAAATAT
TAACTGAGCCTCAAAATCACCCTTTCTGTCAAGCATATCTTGGCCTCTCCCATGTCTCAGTGTTGCCTGCATTTC
TCCCAGGACTTGGGGGTGGGGTGAAAAGCGTACAAAAGATACTTAAAAGGGCTCCTGGGGTACACAAGCCCAGCA
GGTCCTGAGTGAAGCCGTGGGCCCTCCAAATGCTCGTTTTATAGCAACCTCTCTCTACCCTAGTTCTCCAAATTC
ACTTCTGCCTTCCTCAGGTTTGATATCTGGCAGGTTTGACTATCCAGAGGAAATTAAATATTTTTATATAAAATT
AAATTATAATAAATATTGCCAAATGCTTTCCTTTAGCATTGTTCCAAGTCTAAATGTTAACCTCAAGCTACTGCA
ATTTAGACAATGAAATGGGCTGGGTCTACCCCCAGCCACCAGCCCTCATCCTCTCTACCCAGTGCTCTGGTTTAT
GCTTGTCTCCTGACTGCTCTGCTTAAAGGTGAAAGTAGCAGGAACAACAACAAAAGCCAACCAAAAACAAGGTAG
CCAGTGCAAGACATCTCACTCTTCTGACATCCTGCAGTCCCCACCAGTCCTGACCGTGGGCCCCTCAGGGGTCTG
GGAGTGTGACGTTGTAATCTTCATCCGTCTCTATCCCAACTTCCTCCTGTGAGACAGGGAGACAAGTGAATGAGA
TGTCACCAGGATAAGACCACAGGGAAGCAAAGAAGGAAGAGAGCTCCACTTACAAAGAACTGCTTCTTGCTCTTG
GGGTATCCTTCAAGTATTGCATCAGACAGCTCTGTAGCCTGACAAGAAATAAAACCACCCGTTTTCAGATGGGCA
GCACTGGGCACTGCCTGTCAGTTTATGATATTGTGT
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FIGURE 4862

MTEPGASPEDPWVKASPVGAHAGEGRAGRARARRGAGRRGASLLSPKSPTLSVPRGCREDSSHPACAKVEYAYSD
NSLDPGLFVESTRKGSVVSRANSIGSTSASSVPNTDDEDSDYHQEAYKESYKDRRRRAHTQAEQKRRDAIKRGYD
DLQTIVPTCQQQDFSIGSQKLSKAIVLQKTIDYIQFLHKEKKKQEEEVSTLRKDVTALKIMKVNYEQIVKAHQDN
PHEGEDQVSDQVKFNVFQGIMDSLFQSFNASISVASFQELSACVFSWIEEHCKPQTLREIVIGVLHQLKNQLY

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FIGURE 4863

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CAACTACAACGTCCGGCTTTCTGAGTTGGGTGGCGGGAAAGGCGATGAGTAAAGGCCGGGCAGAAGCTGCGGTAG
CCGCCGGGATCCTCCTGAGGTACCTGCAGGAGCAGAACCGGCCCTACAGCTCCCAGGATGTGTTCGGGAACCTAC
AGCGGGAACACGGACTGGGCAAGGCGGTGGTGGTGAAGACGCTGGAGCAGCTGGCGCAACAAGGCAAGATCAAAG
AGAAGATGTACGGCAAGCAGAAGATCTATTTTGCGGATCAGGACCAGTTTGACATGGTGAGTGATGCTGACCTTC
AAGTCCTAGATGGCAAAATCGTGGCCCTCACTGCTAAGGTGCAGAGCTTGCAGCAGAGCTGCCGCTACATGGAGG
CTGAGCTCAAGGAATTATCTAGTGCCCTGACCACACCAGAGATGCAGAAAGAAATCCAGGAGTTAAAGAAGGAAT
GCGCTGGCTACAGAGAGAGATTGAAGAACATTAAAGCAGCTACCAATCATGTGACTCCAGAAGAGAAAGAGCAGG
TGTACAGAGAGAGGCAGAAGTACTGTAAGGAGTGGAGGAAGAGGAAGAGGATGGCTACAGAGCTGTCTGATGCAA
TACTTGAAGGATACCCCAAGAGCAAGAAGCAGTTCTTTGAGGAAGTTGGGATAGAGACGGATGAAGATTACAACG
TCACACTCCCAGACCCCTGAGGGGCCCACGGTCAGGACTGGTGGGGACTGCAGGATGTCAGAAGAGTGAGATGTC
TTGCACTGGCTACCTTGTTTTTGGTTGGCTTTTGTTGTTGTTCCTGCTACTTTCACCTTTAAGCAGAGCAGTCAG
GAGACAAGCATAAACCAGAGCACTGGGTAGAGAGGATGAGGGCTGGTGGCTGGGGGTAGACCCAGCCCATTTCAT
TGTCTAAATTGCAGTAGCTTGAGGTTAACATTTAGACTTGGAACAATGCTAAAGGAAAGCATTTGGCAATATTTA
TTATAATTTAATTTTATATAAAAATATTTAATTTCCTCTGGATAGTCAAACCTGCCAGATATCAAACCTGAGGAA
GGCAGAAGTGAATTTGGAGAACTAGGGTAGAGAGAGGTTGCTATAAAACGAGCATTTGGAGGGCCCACGGCTTCA
CTCAGGACCTGCTGGGCTTGTGTACCCCAGGAGCCCTTTTAAGTATCTTTTGTACGCTTTTCACCCCCACCCCCAA
GTCCTGGGAGAAATGCAGGCAACACTGAGACATGGGAGAGGCCAAGATATGCTTGACAGAAAGGGTGATTTTGAG
GCTCAGTTAATATTTCAAAATTGTAACCGTAGCAAAACTGCATTGGTATTTAGAAAAATAAAAAATTTCCA
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FIGURE 4864

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GGGCGGACGGCACAGAGGGAGGGAGCGAGCGAGCAGTGAGTAAGCCAGCAAGGGCGGTCGGGTCCCGAGGTCAGC
CGAGATTTCTCAGGTCCCTCCGGCCCCCTCCCTGGAGTCCACAGCGCCTCCGGTGTCCAGAGGATCGGACACGGC
CCGGCCCCGGCCATGGCCTCGTTGCTGAAGGTGGATCAGGAAGTGAAGCTCAAGGTTGATTCTTTCAGGGAGCGGA
TCACAAGTGAGGCAGAAGACTTGGTGGCAAATTTTTTCCCAAAGAAGTTATTAGAACTTGATAGTTTTCTGAAGG
AACCAATCTTAAACATCCATGACCTAACTCAGATCCACTCTGACATGAATCTCCCAGTCCCTGACCCCATTCTTC
TCACCAATAGCCATGATGGACTGGATGGTCCCACTTATAAGAAGCGAAGGTTGGATGAGTGTGAAGAAGCCTTCC
AAGGAACCAAGGTGTTTGTGATGCCCAATGGGATGCTGAAAAGCAACCAGCAGCTGGTGGACATTATTGAGAAAG
TGAAACCTGAGATCCGGCTGTTGATTGAGAAATGTAACACGCCTTCAGGCAAAGGTCCTCATATATGTTTTGACC
TCCAGGTCAAAATGTGGGTACAGCTCCTGATTCCCAGGATAGAAGATGGAAACAACTTTGGGGTGTCCATTCAGG
AGGAAACAGTTGCAGAGCTAAGAACTGTTGAGAGTGAAGCTGCATCTTATCTGGACCAGATTTCTAGATATTATA
TTACAAGAGCCAAATTGGTTTCTAAAATAGCTAAATATCCCCATGTGGAGGACTATCGCCGCACCGTGACAGAGA
TTGATGAGAAAGAATATATCAGCCTTCGGCTCATCATATCAGAGCTGAGGAATCAATATGTCACTCTACATGACA
TGATCCTGAAAAATATCGAGAAGATCAAACGGCCCCGGAGCAGCAATGCAGAGACTCTGTACTGAGGCCAGGGCC
AGGGCCAGGGGACTCTGTGAGTCTGGCTCAAGACCGACATTGCCTTGGTTTGTTACATGACTATCGTGATGGGGA
AACTGGCTGGAAATAGTAATCACACCTCTCTGTTTTTAGTTAGAGTCTAATGAAACTCTCATCTAGTTCTGTGAT
GTGTTTACCTCTTTTTTCAGGCCTCAGGAACTCTTCTATTTCCTTCCCTAATACCCCACACCCAACCTGTCGTAA
TTTCTGGAGAACTCCAGGTTTGTGTGTGCAGGATGTTGGCACAAAAATACCTGTGTTTTCATTCTCCCCCTCTCT
CCCTCCTGTGTCTTGCGCTTTATGTTTTCTTCCGTTTGATAATTAGTTGGTTAAAAGCTGAGGGAACCGGAAGGA
AAGTGCTAGGTGTTTTTTAGGAACTAGGGTGGCGGGGGGACGAACTTCTCTTCCTCACATGAGGTTACTGTTTCT
TTCCTCTGTGGGGCATTGGATCCTCCCACAGTTGCCCTGGTGATGACTTAGGGCTTCCCATCTGTGTACATCCCA
CTTTGAATCTTGATCGTGACAAGAAATACCTTAGGCCTTCAGTCAATTCCGAAGCTCCTTCAGTTGTTTTTATAA
TGGGCGTTTTCACATGCACATATGTGTATGCATGTATACGCCCATACAGACATGCACACACAGACTCCTACTCCA
TTAGCTAACATACCCTCCCTCTCCACAACCCCTGTCACATACCTTTCAGGAGGTGACAGTTGTCTTAGTTGTCAT
CTACCCAGACAAACGTCCTGGGCCCGTCCTCCCTCCTGATACTGTAGCCTCTTGGTACCCAGGGTGAGTTGGTGG
AGAACAGAGAGATGAGAAGCAGAGGGCTTGGGGAAAGCCTGTTCCTCTCTGACTCAGCCCTTTTTGGCATTATTG
CAAGAGCTTGACTCCTGGTTGCCTTTTCCCAGCCAGTTTTCAGTTGGGGTGAAGGTTTCTGCAAGTGTGAGGTCC
AGATGCTGCTGCTCATGTTGGGCTTTCCTTTTGGGAACTATTTCTCTTTATTTATAGTGTCGGGCTTCCGGGGAA
AGCAATCATTGGTGTGTATGTGTATGTGCATGCACACACGTGCATATACACATTTGTGTATGTGGAAATGTGCTG
GGCAAGTCAAAACTATAGAAGAGTTGCCTCCTGTCTCTCGAATCTTCCAGAGATATCACTTAATTGTTAACAGCT
TTTGTGTTAATCCCCTTCAGCCCCTAGCTCTTTTATTCTACCACGGCTGGAGAGTTGATACCTGCAGTCAGCCTG
CCAGTGACTCTTAGTGTCTGTTTCTGACTTATTTTTCCTGTCTCTGTCTTCCAACCCCCAATAATATTTCCACCG
GGGATGCATCATTTTTACTCCCAATATTCTGTAGAGAGGGAGTCAGGATGCTGTCTTCCCACGAATAGTACTCAG
TAACAAACCAATTGCATTTTAGTTGGGCAGTGCTCCCACCCACCCTCCAGATCCCTTCCAGCTAAAACCCTTCCC
CCTTCCCTCCATGTGTTTCTCAGTTTCCCGTTTCGTTTGTTGGACTGTTCCACTGCCCCTCCTCCTCACCCTATC
ACCCATGGATCGTAATGTAAAATTCTTTTACCATGTCAAGAAATTATTAAAAATACAGGTACTTTGACCTCTTTC
TAAAGCCGCAGACCCTGGTGCAATGCTCTGGTGGCTAGGGATGTACTCATGCTCATATGTGTGCACGCTTGGACA
CCCACCTCCATGGACACCTAGCCACCCTGTTGTGTGTCCTTATGCCAGTTGAGCTGAATCTTTTCCCCAGTATAG
TGGAAAGACTGAGGCTTCTGCCTACTGAGCAAGGTTGGGTGCTTCATTTGTGTTCAGTCTGAATTATGGGAAAGT
TAGCTCTTCCCAGACCTAAGCTGCCTTCTCTCCCTACTTTCAG
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FIGURE 4865

GCTGAAGACAGAGCGATGGTAGTTCTGGAGGCCTCGCTCCGGGGCCGACCCGAGGCCACAGTGCCTCCGCGGTAG
ACCGGACTTGGGTGACGGGCTCCGGGCTCCCGAGGTGAAGAGCATCGGGGGCTGAGGG**ATG**GAAGGGTCTAAGAC
GTCCAACAACAGCACCATGCAGGTGAGCTTCGTGTGCCAGCGCTGCAGCCAGCCCCTGAAACTGGACACGAGTTT
CAAGATCCTGGACCGTGTCACCATCCAGGAACTCACAGCTCCATTACTTACCACAGCCCAGGCGAAACCAGGAGA
GACCCAGGAGGAAGAGACTAACTCAGGAGAGGAGCCATTTATTGAAACTCCTCGCCAGGATGGTGTCTCTCGCAG
ATTCATCCCCCCAGCCAGGATGATGTCCACAGAAAGTGCCAACAGCTTCACTCTGATTGGGGAGGCATCTGATGG
CGGCACCATGGAGAACCTCAGCCGAAGACTGAAGGTCACTGGGGACCTTTTTGACATCATGTCGGGCCAGACAGA
TGTGGATCACCCACTCTGTGAGGAATGCACAGATACTCTTTTAGACCAGCTGGACACTCAGCTCAACGTCACTGA
AAATGAGTGTCAGAACTACAAACGCTGTTTGGAGATCTTAGAGCAAATGAATGAGGATGACAGTGAACAGTTACA
GATGGAGCTAAAGGAGCTGGCACTAGAGGAGGAGAGGCTGATCCAGGAGCTGGAAGACGTGGAAAAGAACCGCAA
GATAGTGGCAGAAAATCTCGAGAAGGTCCAGGCTGAGGCTGAGAGACTGGATCAGGAGGAAGCTCAGTATCAGAG
AGAATACAGTGAATTTAAACGACAGCAGCTGGAGCTGGATGATGAGCTGAAGAGTGTTGAAAACCAGATGCGTTA
TGCCCAGACGCAGCTGGATAAGCTGAAGAAAACCAACGTCTTTAATGCAACCTTCCACATCTGGCACAGTGGACA
GTTTGGCACAATCAATAACTTCAGGCTGGGTCGCCTGCCCAGTGTTCCCGTGGAATGGAATGAGATTAATGCTGC
TTGGGGCCAGACTGTGTTGCTGCTCCATGCTCTGGCCAATAAGATGGGTCTGAAATTTCAGAGATACCGACTTGT
TCCTTACGGAAACCATTCATATCTGGAGTCTCTGACAGACAAATCTAAGGAGCTGCCGTTATACTGTTCTGGGGG
GTTGCGGTTTTTCTGGGACAACAAGTTTGACCATGCAATGGTGGCTTTCCTGGACTGTGTGCAGCAGTTCAAAGA
AGAGGTTGAGAAAGGCGAGACACGTTTTTGTCTTCCCTACAGGATGGATGTGGAGAAAGGCAAGATTGAAGACAC
AGGAGGCAGTGGCGGCTCCTATTCCATCAAAAACCCAGTTTAACTCTGAGGAGCAGTGGACAAAAGCTCTCAAGTT
CATGCTGACGAATCTTAAGTGGGGTCTTGCTTGGGTGTCCTCACAATTTTATAACAAA**TGA**CTTTTTTCCTTAGG
GGGAGGTTTGCCTTAAAGGCTTTTAATTTTGTTTTGTTTGCAAACATGTTTTAAATTAAATTCGGGTAATATTAA
ACAGTACATGTTTACAATACCAAAAAAGAAAAAATCCACAAAAGCCACTTTATTTTAAAATATCATGTGACAGAT
ACTTTCCAGAGCTACAACATGCCATCTATAGTTGCCAGCCCTGGTCAGTTTTGATTCTTAACCCCATGGACTCCT
TTCCCTTTCTTCTCTGAAAAAAACTAATTTAAATTTGCTTTTCTTTTTTTTAACTGAGTTGAATTGAGATTGATG
TGTTTTCACTGGATTTTTATCTCTCTCAACTTCCTGCACTTAACAATATGAAATAGAAACTTTTGTCTTTACTGA
GATGAGGATATGTTTGAGATGCACAGTTGGATAATGTGGGAAAATGACATCTAAGCTTTACCTGGTCACCATGTG
ATGTGATCAGATGCTTGAAATTTAACACTTTTCACTTGGTTCTTATACTGAATGCCGACTCTGCTCTGTGTTAGA
GATATGAAATGGTGTTTGATACTGTTTGAGACATTATGGAGAGATTTAATTATTTGTAATAAAAGATTTGCTGCA
GTCTGAAAACTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4866

MEGSKTSNNSTMQVSFVCQRCSQPLKLDTSFKILDRVTIQELTAPLLTTAQAKPGETQEEETNSGEEPFIETPRQ
DGVSRRFIPPARMMSTESANSFTLIGEASDGGTMENLSRRLKVTGDLFDIMSGQTDVDHPLCEECTDTLLDQLDT
QLNVTENECQNYKRCLEILEQMNEDDSEQLQMELKELALEEERLIQELEDVEKNRKIVAENLEKVQAEAAERLDQE
EAQYQREYSEFKRQQLELDDELKSVENQMRYAQTQLDKLKKTNVFNATFHIWHSGQFGTINNFRLGRLPSVPVEW
NEINAAWGQTVLLLHALANKMGLKFQRYRLVPYGNHSYLESLTDKSKELPLYCSGGLRFFWDNKFDHAMVAFLDC
VQQFKEEVEKGETRFCLPYRMDVEKGKIEDTGGSGGSYSIKTQFNSEEQWTKALKFMLTNLKWGLAWVSSQFYNK

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FIGURE 4867

TTGGAGGTCCCCCTCCCCACTAAGTGCCTCTTTGCATAGCACCAGTCCCCACCCGCACGCTCTCTGGACCACTAC
AGCTGGACGGGCAATGGCGGGTCGGGGAGGCGCAGCACGACCCAATGGACCAGCTGCTGGGAACAAGATCTGTCA
ATTTAAGCTGGTTCTGCTGGGGGAGTCTGCGGTAGGCAAATCCAGCCTCGTCCTCCGCTTTGTCAAGGGACAGTT
TCACGAGTACCAGGAGAGCACAATTGGAGCGGCCTTCCTCACACAGACTGTCTGCCTGGATGACACAACAGTCAA
GTTTGAGATCTGGGACACAGCTGGACAGGAGCGGTATCACAGCCTGGCCCCCATGTACTATCGGGGGGCCCAGGC
TGCCATCGTGGTCTATGACATCACCAACACAGATACATTTGCACGGGCCAAGAACTGGGTGAAGGAGCTACAGAG
GCAGGCCAGCCCCAACATCGTCATTGCACTCGCGGGTAACAAGGCAGACCTGGCCAGCAAGAGAGCCGTGGAATT
CCAGGAAGCACAAGCCTATGCAGACGACAACAGTTTGCTGTTCATGGAGACATCAGCAAAGACTGCAATGAACGT
GAACGAAATCTTCATGGCAATAGCTAAGAAGCTTCCCAAGAACGAGCCCCAGAATGCAACTGGTGCTCCAGGCCG
AAACCGAGGTGTGGACCTCCAGGAGAACAACCCAGCCAGCCGGAGCCAGTGCTGCAGCAACTGAGCCCCCCTTGC
CTGCCCGCTGCCCCCGCCTCCTCCGCCTGAATGACCCGACTGGAATCCACTCTAACCAATCGCACTTAACGACTC
GGGCCACCACTGGGGGGGCAGGGGGAGGGGTCCACCATGATTTCTCCATATAATTTTGATCATAGGCCGGAGTGA
GTCATTCCACCTGCACCTTTCTGTACAAATACTAATTCAATTTTAAGTCTTAAGTCACTTTTTTAATATATATGA
TCTTCTGCTCTTCCCACTTCCTCCCCTTTCTACTGCTCTCCCATTTTCCCTTGCTGGGAGTAGCCACATGCTCTT
GCCCCCCAACCCTTGTATATGGGGACAGTGGGGTCAGTGCAGCTACCCTTTCTTTCCCTCCTGCGGAACAGCGGA
CCCAGCAAGAGCATCCACATCCTCACTTTGTTCGGAGTGGTCTTTGGTTTGGGCGGTGGGGCAGACCTTGGGAAG
GGGCTTAGGAAGGGAGAGGCAGCTCTTCCTTCAGCTGGCTCTCATCAGGCTGCAGCCCCCTCCCCGCTCCCACCT
CCCTGCTGGGAAACCACAGCATTATCACAGCATTATTGTGACAGCCACGAACCCATTGCCCACAACCCCTCCACC
CTCGGTCACCCCAACCTCTGGCTCTGAGCCCTGTTCTGACCAAATCATGATGATGAGTATTTGGGGGTGGGTGGG
TAAGGGGGGGAGTGGGAGGGGACGGAACCAACTTTTTCTGTATTTTGTATTGTATGTTTTCTTCAACATGTAACC
AATCAGTATCTTGTCAATATAGTCAGCCGATCGATCGACCTC

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FIGURE 4868

MAGRGGAARPNGPAAGNKICQFKLVLLGESAVGKSSLVLRFVKGQFHEYQESTIGAAFLTQTVCLDDTTVKFEIW
DTAGQERYHSLAPMYYRGAQAAIVVYDITNTDTFARAKNWVKELQRQASPNIVIALAGNKADLASKRAVEFQEAQ
AYADDNSLLFMETSAKTAMNVNEIFMAIAKKLPKNEPQNATGAPGRNRGVDLQENNPASRSQCCSN

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FIGURE 4869

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CCGCTCTCCGCTGCGGGGGGAGGCCATGGCGGAACCTTCCCAGGCCCCGACCCCGGCCCCGGCTGCGCAGCCCCGG
CCCCTTCAGTCCCCAGCCCCTGCCCCAACTCCGACTCCTGCACCCAGCCCGGCTTCAGCCCCGATTCCGACTCCC
ACCCCGGCACCAGCCCCTGCCCCAGCTGCAGCCCCAGCCGGCAGCACAGGGACTGGGGGGCCCGGGGTAGGAAGT
GGGGGGGCCGGGAGCGGGGGGGATCCGGCTCGACCTGGCCTGAGCCAGCAGCAGCGCGCCAGTCAGAGGAAGGCG
CAAGTCCGGGGGCTGCCGCGCGCCAAGAAGCTTGAGAAGCTAGGGGTCTTCTCGGCTTGCAAGGCCAATGAAACC
TGTAAGTGTAATGGCTGGAAAAACCCCAAGCCCCCCACTGCACCCCGCATGGATCTGCAGCAGCCAGCTGCCAAC
CTGAGTGAGCTGTGCCGCAGTTGTGAGCACCCCTTGGCTGACCACGTATCCCACTTGGAGAATGTGTCAGAGGAT
GAGATAAACCGACTGCTGGGGATGGTGGTGGATGTGGAGAATCTCTTCATGTCTGTTCACAAGGAAGAGGACACA
GACACCAAGCAGGTCTATTTCTACCTCTTCAAGCTACTGCGGAAATGCATCCTGCAGATGACCCGGCCTGTGGTG
GAGGGGTCCCTGGGCAGCCCTCCATTTGAGAAACCTAATATTGAGCAGGGTGTGCTGAACTTTGTGCAGTACAAG
TTTAGTCACCTGGCTCCCCGGGAGCGGCAGACGATGTTCGAGCTCTCAAAGATGTTCTTGCTCTGCCTTAACTAC
TGGAAGCTTGAGACACCTGCCCAGTTTCGGCAGAGGTCTCAGGCTGAGGACGTGGCTACCTACAAGGTCAATTAC
ACCAGATGGCTCTGTTACTGCCACGTGCCCCAGAGCTGTGATAGCCTCCCCCGCTACGAAACCACTCATGTCTTT
GGGCGAAGCCTTCTCCGGTCCATTTTCACCGTTACCCGCCGGCAGCTGCTGGAAAAGTTCCGAGTGGAGAAGGAC
AAATTGGTGCCCGAGAAGAGGACCCTCATCCTCACTCACTTCCCCAAATTCCTGTCCATGCTGGAGGAGGAGATC
TATGGGGCAAACTCTCCAATCTGGGAGTCAGGCTTCACCATGCCACCCTCAGAGGGGACACAGCTGGTTCCCCGG
CCAGCTTCAGTCAGTGCAGCGGTTGTTCCCAGCACCCCCATCTTCAGCCCCAGCATGGGTGGGGGCAGCAACAGC
TCCCTGAGTCTGGATTCTGCAGGGGCCGAGCCTATGCCAGGCGAGAAGAGGACGCTCCCAGAGAACCTGACCCTG
GAGGATGCCAAGCGGCTCCGTGTGATGGGTGACATCCCCATGGAGCTGGTCAATGAGGTCATGCTGACCATCACT
GACCCTGCTGCCATGCTGGGGCCTGAGACGAGCCTGCTTTCGGCCAATGCGGCCCGGGATGAGACAGCCCGCCTG
GAGGAGCGCCGCGGCATCATCGAGTTCCATGTCATCGGCAACTCACTGACGCCCAAGGCCAACCGGCGGGTGTTG
CTGTGGCTCGTGGGGCTGCAGAATGTCTTTTCCCACCAGCTGCCGCGCATGCCTAAGGAGTATATCGCCCGCCTC
GTCTTTGACCCGAAGCACAAGACTCTGGCCTTGATCAAGGATGGGCGGGTCATCGGTGGCATCTGCTTCCGCATG
TTTCCCACCCAGGGCTTCACGGAGATTGTCTTCTGTGCTGTCACCTCGAATGAGCAGGTCAAGGGTTATGGGACC
CACCTGATGAACCACCTGAAGGAGTATCACATCAAGCACAACATTCTCTACTTCCTCACCTACGCCGACGAGTAC
GCCATCGGCTACTTCAAAAAGCAGGGTTTCTCCAAGGACATCAAGGTGCCCAAGAGCCGCTACCTGGGCTACATC
AAGGACTACGAGGGAGCGACGCTGATGGAGTGTGAGCTGAATCCCCGCATCCCCTACACGGAGCTGTCCCACATC
ATCAAGAAGCAGAAAGAGATCATCAAGAAGCTGATTGAGCGCAAACAGGCCCAGATCCGCAAGGTCTACCCGGGG
CTCAGCTGCTTCAAGGAGGGCGTGAGGCAGATCCCTGTGGAGAGCGTTCCTGGCATTCGAGAGACAGGCTGGAAG
CCATTGGGGAAGGAGAAGGGGAAGGAGCTGAAGGACCCCGACCAGCTCTACACAACCCTCAAAAACCTGCTGGCC
CAAATCAAGTCTCACCCCAGTGCCTGGCCCTTCATGGAGCCTGTGAAGAAGTCGGAGGCCCCTGACTACTACGAG
GTCATCCGCTTCCCCATTGACCTGAAGACCATGACTGAGCGGCTGCGAAGCCGCTACTACGTGACCCGGAAGCTC
TTTGTGGCCGACCTGCAGCGGGTCATCGCCAACTGTCGCGAGTACAACCCCCCGGACAGCGAGTACTGCCGCTGT
GCCAGCGCCCTGGAGAAGTTCTTCTACTTCAAGCTCAAGGAGGGAGGCCTCATTGACAAGTAGGCCCATCTTTGG
GCCGCAGCCCTGACCTGGAATGTCTCCACCTCGGATTCTGATCTGATCCTTAGGGGGTGCCCTGGCCCCACGGAC
CCGACTCAGCTTGAGACACTCCAGCCAAGGGTCCTCCGGACCCGATCCTGCAGCTCTTTCTGGACCTTCAGGCAC
CCCCAAGCGTGCAGCTCTGTCCCAGCCTTCACTGTGTGTGAGAGGTCTCCTGGGTTGGGGCCCAGCCCCTCTAGA
GTAGCTGGTGGCCAGGGATGAACCTTGCCCAGCCGTGGTGGCCCCCAGGCCTGGTCCCCAAGAGCTTTGGAGGCT
TGGATTCCTGGGCCTGGCCCAGGTGGCTGTTTCCCTGAGGACCAGAACTGCTCATTTTAGCTTGAGTGATGGCTT
CAGGGGTTGGAAGTTCAGCCCAAACTGAAGGGGGCCATGCCTTGTCCAGCACTGTTCTGTCAGTCTCCCCCAGGG
GTGGGGGGTATGGGGACCATTCATTCCCTGGCATTAATCCCTTAGAGGGAATAATAAAGCTTTTTATTTCTCTG
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FIGURE 4870

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MAEPSQAPTPAPAAQPRPLQSPAPAPTPTPAPSPASAPIPTPTPAPAPAPAAAPAGSTGTGGPGVGSGGAGSGGD
PARPGLSQQQRASQRKAQVRGLPRAKKLEKLGVFSACKANETCKCNGWKNPKPPTAPRMDLQQPAANLSELCRSC
EHPLADHVSHLENVSEDEINRLLGMVVDVENLFMSVHKEEDTDTKQVYFYLFKLLRKCILQMTRPVVEGSLGSPP
FEKPNIEQGVLNFVQYKFSHLAPRERQTMFELSKMFLLCLNYWKLETPAQFRQRSQAEDVATYKVNYTRWLCYCH
VPQSCDSLPRYETTHVFGRSLLRSIFTVTRRQLLEKFRVEKDKLVPEKRTLILTHFPKFLSMLEEEIYGANSPIW
ESGFTMPPSEGTQLVPRPASVSAAVVPSTPIFSPSMGGGSNSSLSLDSAGAEPMPGEKRTLPENLTLEDAKRLRV
MGDIPMELVNEVMLTITDPAAMLGPETSLLSANAARDETARLEERRGIIEFHVIGNSLTPKANRRVLLWLVGLQN
VFSHQLPRMPKEYIARLVFDPKHKTLALIKDGRVIGGICFRMFPTQGFTEIVFCAVTSNEQVKGYGTHLMNHLKE
YHIKHNILYFLTYADEYAIGYFKKQGFSKDIKVPKSRYLGYIKDYEGATLMECELNPRIPYTELSHIIKKQKEII
KKLIERKQAQIRKVYPGLSCFKEGVRQIPVESVPGIRETGWKPLGKEKGKELKDPDQLYTTLKNLLAQIKSHPSA
WPFMEPVKKSEAPDYYEVIRFPIDLKTMTERLRSRYYVTRKLFVADLQRVIANCREYNPPDSEYCRCASALEKFF
YFKLKEGGLIDK
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FIGURE 4871

GGCACGAGGCGCGAGCTCGGAGGGCCCGGCTGGTGCTGCGGGGGCCCCGGGAGGTTGAAAACTAAGC**ATG**GGGAA
GAGCTGCAAGGTGGTCGTGTGTGGCCAGGCGTCTGTGGGCAAAACTTCAATCCTGGAGCAGCTTCTGTATGGGAA
CCATGTAGTGGGTTCGGAGATGATCGAGACGCAGGAGGACATCTACGTGGGCTCCATTGAGACAGACCGGGGGGT
GCGAGAGCAGGTGCGTTTCTATGACACCCGGGGGCTCCGAGATGGGGCCGAACTGCCCCGACACTGCTTCTCTTG
CACTGATGGCTACGTCCTGGTCTATAGCACAGATAGCAGAGAGTCTTTTCAGCGTGTGTGGAGCTGCTCAAGAAGGA
GATTGACAAATCCAAGGACAAGAAGGAGGTCACCATCGTGGTCCTTGGCAACAAGTGTGACTTACAGGAGCAGCG
GCGTGTAGACCCAGATGTGGCTCAGCACTGGGCCAAGTCAGAGAAGGTGAAGCTGTGGGAGGTGTCAGTGGCGGA ·
CCGGCGCTCCCTCCTGGAGCCCTTTGTCTACTTGGCCAGCAAGATGACGCAACCCCAGAGCAAGTCTGCCTTCCC
CCTCAGCCGGAAGAACAAGGGCAGCGGCTCCTTGGATGGC**TGA**AGAGCTGCCGTTCCTCTTTCACGATCCCAGCC
CCATTTCAGTGTCTGGGGCTCTGGTAGATGTGTTGAGGGCAAAGTAGAGGACAAGCTGTCTTTCCCAGTCAGCCA
GGGAGCTCCCCGCCAGGCCACGCCCCAGCCACTTTGCTCCCTCTCACCTCTGGGAAGTGCAAATACTCTTGGTTG
ACATCCCCTTCCTCAGCCCTCCCAGCCTACTCCCCATCCCAGCTTTTAGAGGATCTGCTCCACTGTCTCCTGGGG
CAGTTGTGGGTCACTGTCCCTTCCAGCTGCCCCAGACAGGAAGCAGAGTCACCACGCAGCAGTGTCCCTTCTTGG
GTCTGAGTTCCTATTATAGGTAGGGGCCCCACCCTCTGGGCTTCCCATCAGCGACACACACACACTTATGGCACC
AGCCTGGACTCCAGAAAAAGGGTGTCCAGGTATTGTGTGTATGCATTTAGTTGTGCACACACAAATATGCTCCTA
TACTGGCATTAGGCGTCTCCTCATCCCTCACCCTGACCTTTCTCCTGTCCTTTTCTTGGCTGGAAGAAGTTGGCC
TCCTGGGAGTGTAGTTTTCTGTTTTAAATCCCCCACCCCTGGCTGGGCTCAGTGGCTCACCCCTGTAATCCCAGC
ACTTTGGGAGGCCAAGGCGGGTCGATTACTTGAGGTCAGGAGTTCACGACCAGCCTGGCCAACATTGTGAAACCC
CATCTCTGCCAAAAATACAAAAGTTAGCCGGGCGTAGTGGCACATGCCTGTAATCCCAGCTACCCGGGGAGGCTG
AGGCAGGAGAATTGCTTGAACTCAGAAGGCGGAGGCTGCAGTGAGCCGAGATCGTGCCACTGCACTCCAGCCTGG
TCAACAGAGCAAGACTCCATCTCGAAAAAAAAAAAAAAAAAAAA

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FIGURE 4872

MGKSCKVVVCGQASVGKTSILEQLLYGNHVVGSEMIETQEDIYVGSIETDRGVREQVRFYDTRGLRDGAELPRHC
FSCTDGYVLVYSTDSRESFQRVELLKKEIDKSKDKKEVTIVVLGNKCDLQEQRRVDPDVAQHWAKSEKVKLWEVS
VADRRSLLEPFVYLASKMTQPQSKSAFPLSRKNKGSGSLDG

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FIGURE 4873

GGGAAG**ATG**GCGGCTGTCGAAGCGGCTGCAGAGCCGGTAACGGTGGTGGCGGCTGTTGGGCCAAAGGCGAAAGAC
GAAGAGGAGGAGGAAGAGGAGCCGCTGCCACCGTGCGAGGCGGTGCGCTGGGCCCCAGTGGGGGCGGTGGCGGAG
GCCCGGCCTGGGGCAACCGCGTTTTTAGAAGAGGCGACGGCCGAGGAGCCTGGCGCGGCCCCGGGCTCCCCGCCG
GATTCGCCGGGCCGGACGCTGCGGCGGCTGCGGGCAGAGCGGCGGCGGCTGGACTCGGCGCTGCTGGCGCTGTCC
TCGCACTTCGCGCAGGTGCAGTTCCGCCTGCGCCAGGTGGTGCGCGGGGCGCCGGCGGAGCAGCAGCGCCTTCTG
CGGGAGCTCGAAGACTTCGCCTTCCGCGGCTGCCCTCACGTCCTAGGTTACGAAGGGCCCGGCGACCCCGCCAGC
GATGAGGGCGATGGGCTGCCAGGGGACCGGCCATGGTTGCGGGGCGAGGACCAGAGTGAGCAGGAAAAGCAAGAG
CGTCTGGAAACCCAAAGGGAGAAGCAGAAAGAACTGATACTGCAGCTCAAGACCCAGCTAGATGACCTGGAAACG
TTTGCCTATCAAGAGGGCAGTTATGACTCGCTGCCACAGTCCGTGGTGTTGGAAAGACAGCGGGTGATCATAGAT
GAGTTAATAAAGAAACTGGACATGAATCTGAATGAGGACATCAGTTCCCTGTCCACTGAAGAGCTTCGTCAGCGT
GTAGATGCAGCAGTGGCTCAGATCGTCAACCCAGCCCGAGTCAAAGAACAGTTGGTTGAGCAACTGAAAACTCAG
ATCCGAGACCTTGAGATGTTTATCAACTTCATCCAAGATGAAGTGGGAAGCCCCTTGCAGACAGGTGGTGGACAC
TGTGAGTGCAAGGCCGGTGGGAAGACAGGAAATGGCTGCAGCAGAACAGGCAGCAGCAGAACGCCTCCAGGAAAC
AGCAAAACAAAGGCAGAGGATGTGAAGAAAGTCCGGGAGACGGGGCTGCACCTGATGCGGCGAGCGCTGGCCGTG
CTCCAGATCTTTGCTGTTAGCCAGTTTGGTTGTGCCACAGGCCAGATCCCTCCAACCCTGTGGCAGAGGGTCCAG
GCTGACAGAGACTACTCTCCCTTGCTGAAGAGGCTGGAGGTGTCAGTGGACAGAGTGAAGCAGCTAGCCTTGAGG
CAGCAGCCACATGACCATGTCATCACCTCTGCCAACCTCCAGGACCTCTCTCTGGGAGGCAAGGATGAGCTGACT
ATGGCTGTGCGGAAGGAGCTAACGGTGGCTGTGAGGGACCTGCTGGCCCATGGACTGTATGCCTCCTCCCCAGGG
ATGAGCCTTGTTATGGCTCCTATTGCTTGTTTGCTGCCAGCCTTCTCCTCGGCCCCAGAGGCCATGCACCCGTGG
GAGCTCTTTGTAAAGTACTACCATGCTAAGAACGGCCGTGCTTATGTGGAATCCCCAGCCCGGAAGCTCTCCCAG
TCCTTCGCCCTTCCTGTTACGGGAGGCACTGTTGTCACCCCCAAACAGAGCCTACTGACAGCCATCCACATGGTG
CTGACAGAGCATGACCCTTTTAAGCGCAGTGCAGACTCAGAATTGAAGGCCTTGGTGTGCATGGCACTGAATGAG
CAGCGTCTGGTGTCCTGGGTGAACCTCATCTGCAAGTCCGGGTCACTCATCGAGCCTCACTACCAGCCCTGGAGC
TACATGGCACACACAGGCTTTGAGAGTGCCCTCAACCTGCTCAGTCGCCTCAGCAGCCTCAAGTTTAGCCTCCCT
GTAGATCTGGCTGTGCGCCAGCTCAAAAACATCAAAGATGCCTTT**TGA**TGAGAGTGCCCTAACCCCAGACAAGCT
CCTTGTTCAGTAGGGATAGATGTGCTAGTCTTCTAGCATAGGAGCAAGGAATCAGAGGTGGGGTTAAAGGCATTT
TTCCCAGACCCTGCTCAGGCAGTCGGCCAAATGAGTGCAAAGTCTGTTTTCCCCACCAACTTAGCTCTCGGAAAG
ATGTGCTGGAGGGACCCTCTTGTTAAGAAGGTTCTGCCAGGCCGGGCGCGGTGGCTCACACCTGTAATCCCAGCA
CTTTGGGAGGCCGAGGCGGGCGGATCACAAGGTCAGGAGTTCGAGACCATCCTGTCTAACACGGTGAAACCCCAT
CTCTACTAAAAATACAAAAAAATTAGTCGGACATGGTGGCAGGCACCTGTAGTCCCAGCTACTCGGGAGGCTGAG
GCAGGAGAATGGCGTGAACCCAGGAGGCGGAGCTTGCAGTGAGCCAAGATCGCGCCACTGCACTCCAGCCTGGGC
GACAGAGTGAGACTCCGTCTC

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FIGURE 4874

MAAVEAAAEPVTVVAAVGPKAKDEEEEEEEPLPPCEAVRWAPVGAVAEARPGATAFLEEATAEEPGAAPGSPPDS
PGRTLRRLRAERRRLDSALLALSSHFAQVQFRLRQVVRGAPAEQQRLLRELEDFAFRGCPHVLGYEGPGDPASDE
GDGLPGDRPWLRGEDQSEQEKQERLETQREKQKELILQLKTQLDDLETFAYQEGSYDSLPQSVVLERQRVIIDEL
IKKLDMNLNEDISSLSTEELRQRVDAAVAQIVNPARVKEQLVEQLKTQIRDLEMFINFIQDEVGSPLQTGGGHCE
CKAGGKTGNGCSRTGSSRTPPGNSKTKAEDVKKVRETGLHLMRRALAVLQIFAVSQFGCATGQIPPTLWQRVQAD
RDYSPLLKRLEVSVDRVKQLALRQQPHDHVITSANLQDLSLGGKDELTMAVRKELTVAVRDLLAHGLYASSPGMS
LVMAPIACLLPAFSSAPEAMHPWELFVKYYHAKNGRAYVESPARKLSQSFALPVTGGTVVTPKQSLLTAIHMVLT
EHDPFKRSADSELKALVCMALNEQRLVSWVNLICKSGSLIEPHYQPWSYMAHTGFESALNLLSRLSSLKFSLPVD
LAVRQLKNIKDAF

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FIGURE 4875

CTTCCCCAGCTGTGCACTCTCCATCCAGCTGTGCGCTCTCGTCGGGAGTCCCAGCC**ATG**TCCGACGAGAGAGAGG
TAGCCGAGGCAGCGACCGGGGAAGACGCCTCTTCGCCGCCTCCGAAAACCGAGGCAGCGAGCGACCCCCAGCATC
CCGCGGCCTCCGAAGGGGCCGCCGCCGCCGCCGCCTCGCCGCCACTGCTGCGCTGCCTAGTGCTCACCGGCTTTG
GAGGCTACGACAAGGTGAAGCTGCAGAGCCGGCCGGCAGCGCCCCGGCCCCTGGGCCCGGCCAGCTGACGCTGC
GTCTGCGGGCCTGCGGGCTCAACTTCGCAGACCTCATGGCTAGGCAGGGGCTGTACGACCGTCTCCCGCCTCTGC
CTGTCACTCCGGGCATGGAGGGCGCGGGTGTTGTGATCGCAGTGGGCGAGGGAGTCAGCGACCGCAAGGCAGGAG
ACCGGGTGATGGTGTTGAACCGGTCAGGGATGTGGCAGGAAGAGGTGACTGTGCCCTCGGTCCAGACCTTCCTGA
TTCCTGAGGCCATGACCTTTGAGGAAGCTGCTGCCTTGCTCGTCAATTACATTACAGCCTACATGGTCCTCTTTG
ACTTCGGCAACCTACAGCCTGGCCACAGCGTCTTGGTACACATGGCTGCAGGGGGTGTGGGTATGGCTGCCGTGC
AGCTGTGCCGTACAGTGGAGAATGTGACAGTGTTCGGAACGGCCTCGGCCAGCAAGCACGAGGCACTGAAGGAGA
ATGGGGTCACACATCCCATCGACTATCACACGACTGACTACGTGGATGAGATCAAGAAGATTTCCCCTAAAGGAG
TGGACATTGTCATGGACCCTCTGGGTGGGTCAGATACTGCCAAGGGCTACAACCTCCTGAAACCCATGGGCAAAG
TCGTCACCTATGGAATGGCCAACCTGCTGACGGGCCCCAAACGGAACCTGATGGCCCTGGCCCGGACATGGTGGA
ATCAGTTCAGCGTGACAGCTCTGCAGCTGCTGCAGGCCAACCGGGCTGTGTGTGGCTTCCACCTGGGCTACCTGG
ATGGTGAGGTGGAGCTGGTCAGTGGTGTGGTGGCCCGCCTCCTGGCTCTGTACAACCAGGGCCACATCAAGCCCC
ACATTGACTCAGTCTGGCCCTTCGAGAAGGTGGCTGATGCCATGAAACAGATGCAGGAGAAGAAGAATGTGGGCA
AGGTCCTCCTGGTTCCAGGGCCAGAGAAGGAGAAC**TAG**GGCAAGTGGCTGTGAGACCCTAGAGACCAGCGAAGGG
AGAAGTTGGGAAGCTACGTTCTGTTGGCCACCAGACTTGCATTTCAGCCTCTGTCATAATGCTCTGCCCTCCCTC
CCCCGAAGTTCTCTGTGGTGATGACCGCTCTCCCCTGCCCCTCCCCGCTTCCTGACCTCTGAAGAGGTTGGGAAG
TGACCATTTGGATGTCTGGGCCCTGCCAAGGCGACAGGGAGGGTCAGAGGGAGGCCGGCTGCTTCCTGCCCCCAC
CCTTTCCCCGGGCCTGCTGTGCTGCTTTTGTGCCAAGGTTAGCCAGTCCCCCCTGTTGTGTTCCATGTGCTTTCA
CCTCTGCCTCATCTTTCCTCCCGTCCCTGCCCCGCCACCTCCCCAAAGAATTGAAACGTCAGCTCAGGATATGGG
GCCAATCTCTGTGAGTCCAGCATGTACCTGTCTCTCCCTAGTGTCCCTTCAGCCTGGGCTGACCAGTGCCCGCCT
CTGGGCTTGACCAGTTCCCAATCTCGTCCTCTGTCCCCAACTTCTTAAGCACAATTGGGCTTCTTCCATCTCCAG
GTTTTCTGCCATTCTTAACCAAGGCTGCCTCTTCCAACAGGGCGGGAATCAGACCTACTCCCCTAGGTCACAACT
CTGGGAAGGATACAGAGCCCCCACCCTTCACTGAGTTCTCTGGATTTGTTCTCAGTGCCTTAGCAACGAAAACCT
GTGCTTGTGTGTGTGGCGGCGGGGAGGGAGGATCCTGTTTCCCACCTCCTTCTCCTCCCCTGTACTCCCCAGT
GCCTTCCTTGTTCTGGTGGAGCTGGGGTTTCTCTCCTCCCCAGTCCCACAACACTGCCAAAAATCTGTGTATGTG
CCATTGGGTGGGGCAGCCCCAAGCCTCCTGGGGAGGCAGGGCAAAAACAGGTGCCCTCATCGTGGTCTGTGCCAT
GTCCCGTCTCTATGGTGGTTGAGGAGAAAGGCGGGGAAGCTTCCTCAGCCTTGCAGATATGTGTGGCATTTACTA
GCCAGAGCTCTGAAAGGCAGTGCTGTCTGTTTCTTGTACTGGGACCAAAGTAAAAATCCAAGCACATTCCCCTTG
CAGTTAGGGGAGGCCCTACTGCCTTCTCAAAGCAGAGAGGCAGCTTATCAAACTCAGCCCAAAACTCTGTTTACA
TGGGTGGGGAGATGGAGCAGGGAAGTACAGAGTGGGATGGTCAGGACCTGGGCCATTGCAACCAAAATGGGGACT
TCCTGGGTAGGGAGGTCACTCCCTCTACTCACTGAGCTAGGATTAGGGAGGGTTATTGCCCCAACCATTGCAATG
GGAGGTGGAGGGACAGGCTCAGCCTCCTCATTGTCTAAATGAGGCCTAAATGTGTGAAGTGCGATTTCTGCTTTT
GTGTACCCCACCACCCCATTACCACAGCTGCCTTTGTGTGTTTGTGTCAATAAAAAGCCAAACCCTGGGAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4876

MSDEREVAEAATGEDASSPPPKTEAASDPQHPAASEGAAAAAASPPLLRCLVLTGFGGYDKVKLQSRPAAPPAPG
PGQLTLRLRACGLNFADLMARQGLYDRLPPLPVTPGMEGAGVVIAVGEGVSDRKAGDRVMVLNRSGMWQEEVTVP
SVQTFLIPEAMTFEEAAALLVNYITAYMVLFDFGNLQPGHSVLVHMAAGGVGMAAVQLCRTVENVTVFGTASASK
HEALKENGVTHPIDYHTTDYVDEIKKISPKGVDIVMDPLGGSDTAKGYNLLKPMGKVVTYGMANLLTGPKRNLMA
LARTWWNQFSVTALQLLQANRAVCGFHLGYLDGEVELVSGVVARLLALYNQGHIKPHIDSVWPFEKVADAMKQMQ
EKKNVGKVLLVPGPEKEN

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FIGURE 4877

<u>ATG</u>GAGGGGCAGAGCGGCCGCTGCAAGATCGTGGTGGTGGGAGACGCAGAGTGCGGCAAGACGGCGCTGCTGCAG
GTGTTCGCCAAGGACGCCTATCCCGGGAGTTATGTCCCCACCGTGTTTGAGAACTACACTGCGAGCTTTGAGATC
GACAAGCGCCGCATTGAGCTCAACATGTGGGACACTTCAGGTTCCTCTTACTATGATAATGTCCGGCCTCTGGCC
TATCCTGATTCTGATGCTGTGCTCATCTGCTTCGACATTAGCCGACCAGAAACACTGGACAGTGTTCTCAAGAAG
TGGCAAGGAGAGACTCAAGAGTTCTGCCCCAATGCCAAGGTTGTGCTGGTTGGCTGTAAACTGGACATGCGGACT
GACCTGGCCACACTGAGGGAGCTGTCCAAGCAGAGGCTTATCCCTGTTACACATGAGCAGGGCACTGTGCTGGCC
AAGCAGGTGGGGGCTGTGTCCTATGTTGAGTGCTCCTCCCGGTCCTCTGAGCGCAGCGTCAGGGATGTCTTCCAT
GTGGCTACAGTGGCCTCCCTTGGCCGTGGCCATAGGCAGCTGCGCCGAACTGACTCACGCCGGGGAATGCAGCGA
TCCGCTCAGCTGTCAGGACGGCCAGACCGGGGGAATGAGGGCGAGATACACAAGGATCGAGCCAAAAGCTGCAAC
CTCATG<u>TGA</u>

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FIGURE 4878

MEGQSGRCKIVVVGDAECGKTALLQVFAKDAYPGSYVPTVFENYTASFEIDKRRIELNMWDTSGSSYYDNVRPLA
YPDSDAVLICFDISRPETLDSVLKKWQGETQEFCPNAKVVLVGCKLDMRTDLATLRELSKQRLIPVTHEQGTVLA
KQVGAVSYVECSSRSSERSVRDVFHVATVASLGRGHRQLRRTDSRRGMQRSAQLSGRPDRGNEGEIHKDRAKSCN
LM

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FIGURE 4879A

GGCGGAAGCACGATCTCCGGCAGCGGCCTGGGAACTCTTAGCTGAGCAGGCGAGAGCATCATGGATACCGACTTA
TATGATGAGTTTGGGAATTATATTGGACCAGAGCTTGATTCTGATGAAGATGATGATGAATTGGGTAGAGAGACC
AAAGATCTTGATGAGATGGATGATGATGACGACGACGATGACGTAGGAGATCATGACGATGACCACCCTGGGATG
GAGGTGGTGCTGCATGAGGACAAGAAGTACTACCCAACAGCCGAGGAGGTGTATGGTCCTGAGGTGGAGACCATA
GTTCAAGAGGAAGACACTCAGCCTCTCACAGAACCCATTATTAAGCCAGTGAAAACCAAGAAATTCACTCTGATG
GAGCAGACATTACCTGTTACGGTGTATGAGATGGATTTCTTGGCGGATCTGATGGATAACTCAGAGCTCATCAGA
AATGTGACCCTTTGTGGACATCTCCACCATGGCAAGACATGTTTTGTGGATTGTTTAATTGAACAGACTCACCCG
GAAATCAGAAAGCGCTATGACCAAGATCTGTGCTATACTGACATCCTCTTCACAGAGCAAGAGAGAGGTGTAGGC
ATCAAAAGCACTCCTGTGACAGTGGTCTTGCCAGACACCAAAGGAAAATCTTATCTCTTCAATATCATGGACACT
CCAGGACATGTGAATTTCTCTGATGAGGTCACAGCTGGCTTGCGCATCTCAGATGGAGTGGTCCTTTTCATTGAT
GCTGCTGAGGGGGTGATGCTGAACACAGAGCGGCTGATCAAGCATGCGGTGCAGGAGAGGCTGGCAGTCACTGTG
TGCATCAACAAGATTGACCGGCTGATCCTGGAGCTGAAGCTGCCTCCAACTGATGCTTATTACAAGCTGCGCCAC
ATTGTGGATGAGGTCAATGGATTAATAAGCATGTATTCCACTGATGAGAACCTGATCCTTTCCCCACTCCTGGGT
AACGTCTGCTTCTCCAGCTCCCAGTACAGCATCTGCTTCACGCTGGGCTCCTTTGCCAAGATCTATGCCGACACC
TTTGGTGACATTAATTACCAAGAATTTGCTAAAAGACTCTGGGGTGACATCTACTTCAACCCTAAGACGCGAAAG
TTCACCAAAAAGGCCCCAACTAGCAGCTCCCAGAGAAGTTTCGTGGAGTTTATCTTGGAGCCTCTTTATAAGATC
CTCGCCCAGGTTGTAGGTGACGTGGACACCAGCCTCCCACGGACCCTAGACGAGCTTGGCATCCACCTGACGAAG
GAGGAGCTGAAGCTGAACATCCGCCCCTTGCTCAGGCTGGTCTGCAAAAAGTTCTTTGGCGAGTTCACAGGCTTT
GTGGACATGTGTGTGCAGCATATCCCTTCTCCAAAGGTGGGCGCCAAGCCCAAGATTGAGCACACCTACACCGGT
GGTGTGGACTCCGACCTCGGCGAGGCTATGAGTGACTGTGACCCTGATGGCCCCCTGATGTGCCACACTACTAAG
ATGTACAGCACAGATGATGGAGTCCAGTTTCACGCCTTTGGCCGGGTGCTGAGTGGCACCATTCATGCTGGGCAG
CCTGTGAAGGTACTGGGGGGAGAACTACACCCTGGAGGATGAGGAAGACTCCCAGATATGCACCGTGGGCCGCCTT
TGGATCTCTGTGGCCAGGTACCACATCGAGGTGAACCGTGTTCCTGCTGGCAACTGGGTTCTGATTGAAGGTGTT
GATCAACCAATTGTGAAGACAGCAACCATAACCGAACCCCGAGGCAATGAGGAGGCTCAGATTTTCCGACCCTTG
AAGTTCAATACCACATCTGTTATCAAGATTGCTGTGGAGCCAGTCAACCCCTCAGAGCTGCCCAAGATGCTTGAT
GGCCTGCGCAAGGTCAACAAGAGCTATCCATCCCTCACCACCAAGGTGGAGGAGTCTGGCGAGCATGTGATCCTG
GGCACTGGGGAGCTCTACCTGGACTGTGTGATGCATGATTTGCGGAAGATGTACTCAGAGATAGACATCAAGGTG
GCTGACCCAGTTGTCACGTTTTGTGAGACGGTGGTGGAAACATCCTCCCTCAAGTGCTTTGCTGAAACGCCTAAT
AAGAAGAACAAGATCACCATGATTGCTGAGCCTCTTGAGAAGGGCCTGGCAGAGGACATAGAGAATGAGGTGGTC
CAGATTACGTGGAACAGGAAGAAGCTGGGAGAGTTCTTCCAGACCAAGTACGATTGGGATCTGCTGGCTGCCCGT
TCCATCTGGGCTTTTGGCCCTGATGCGACTGGCCCCAACATTCTGGTGGATGATACTCTGCCCTCTGAGGTGGAC
AAGGCTCTTCTTGGTTCAGTGAAGGACAGCATCGTTCAAGGTTTCCAGTGGGAACCAGGGAGGGCCCCCTCTGT
GATGAATTGATTCGGAATGTCAAGTTTAAGATCCTGGATGCGGTGGTTGCCCAGGAGCCCCTGCACCGGGGCGGG
GGCCAGATCATCCCCACAGCCAGGAGAGTCGTCTACTCTGCCTTCCTCATGGCTACTCCTCGTCTGATGGAGCCT
TACTACTTTGTAGAGGTCCAGGCCCCTGCAGATTGCGTCTCTGCAGTTTATACCGTCCTGGCCAGGCGCAGGGGG
CACGTGACTCAGGATGCACCCATCCCAGGCTCCCCTCTGTACACCATCAAAGCTTTTATCCCGGCCATCGACTCT
TTTGGCTTTGAGACTGATCTCCGGACTCACACCCAGGGACAAGCCTTTTCTCTGTCTGTCTTCCACCACTGGCAG
ATTGTGCCTGGTGATCCCCTGGACAAGAGCATTGTCATCCGCCCCTTGGAGCCACAGCCAGCTCCTCACCTGGCC
CGGGAATTCATGATCAAAACCCGCCGTAGGAAGGGCCTCAGTGAAGATGTGAGCATCAGCAAATTCTTCGATGAT
CCTATGTTGCTGGAACTTGCCAAACAGGATGTTGTGCTCAATTACCCCATGTGAGTGCGTGGACTCCTGGGAGCT
CCTGCTCCCTACAGTGGGCTGCAACTCCTGTACTTGAAGCTGAGACCTCATATGACGTGGCCTTCGTGTTGTCAG
AGAGTGTCTGGAAGCTGCTGTTGCCATCTTGAACAACTCACCAACCTCCAACCCAGAGCCCAGTGAGAGAGGAG
CATTTGGCCTCCTGCTTCCTTCTGTGGCCTCTGCCGGGCTCCATTCCCAAGGAAAAGAGAGGAGCTTGGGCTCAC
AGAAAGAGAAGGGGATGAAACCCCAAGGGGCCCTATCTTTGGGATTTACATGGAATTTTATTTTCTACAAGTTTG
ACCTTAGCCATGGTTTGCAAGTGAACAGAACATTCTGACCTCTGTCTTGCTCTGCTCCTTTCATCCTCGTCTCCC
CTGCCCCATCTGGTGCTTACATTCTGAATATATGTCATCTCCCAAGAGGCTTCACTGCCTCTGCTTCCAGCTGCA
GCCTCCTTCCTGCCTGGGTCCCCAGGGAAGCCGCCTGCCTTTTAATTCAGTGTTCCCATGAGCGCCAAGGCCCCA
TTATTGCCCCCTTGCTCCCACTCCATGCTGCTTCTGGGTGGGACCTAAGATGGCTTGGGAGTTGTTGGGTTCCTG

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FIGURE 4879B

CGATCAGAAGTCTACCCCACCACCTCCTCAGGAAACTGCTGCCTCCCCTAAGAATCTTCCTTGCCCTGGAGTAGG
GGGCCAGAGCACTTTGATTTCCAGCCATTTACTCCAAGTCCTCTCCCCAGCTACCACCAGTCCCTTACTCTGTTC
TCCCCCAGTGAAAAAGAGTCTGTTGATTTTCCTC

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FIGURE 4880

AGAGCCAGAGCAGGATGGAGAGGAGACGCATCACCTCCGCTGCTCGCCGCTCCTACGTCTCCTCAGGGGAGATGA
TGGTGGGGGGCCTGGCTCCTGGCCGCCGTCTGGGTCCTGGCACCCGCCTCTCCCTGGCTCGAATGCCCCCTCCXA
CTCCCGACCCGGGTGGATTTCTCCCTGGCTGGGGCACTCAATGCTGGCTTCAAGGAGACCCGGGCCAGTGAGCGG
GCAGAGATGATGGAGCTCAATGACCGCTTTGCCAGCTACATCGAGAAGGTTCGCTTCCTGGAACAGCAAAACAAG
GCGCTGGCTGCTGAGCTGAACCAGCTGCGGGCCAAGGAGCCCACCAAGCTGGCAGACGTCTACCAGGCTGAGCTG
CGAGAGCTGCGGCTGCGGCTCGATCAACTCACCGCCAACAGCGCCCGGCTGGAGGTTGAGAGGGACAATCTGGCA
CAGGACCTGGCCACTGTGAGGCAGAAGCTCCAGGATGAAACCAACCTGAGGCTGGAAGCCGAGAACAACCTGGCT
GCCTATAGACAGGAAGCAGATGAAGCCACCCTGGCCCGTCTGGATCTGGAGAGGAAGATTGAGTCGCTGGAGGAG
GAGATCCGGTTCTTGAGGAAGATCCACGAGGAGGAGGTTCGGGAACTCCAGGAGCAGCTGGCCCGACAGCAGGTC
CATGTGGAGCTTGACGTGGCCAAGCCAGACCTCACCGCAGCCCTGAAAGAGATCCGCACGCAGTATGAGGCAATG
GCGTCCAGCAACATGCATGAAGCCGAAGAGTGGTACCGCTCCAAGTTTGCAGACCTGACAGACGCTGCTGCCCGC
AACGCGGAGCTGCTCCGCCAGGCCAAGCACGAAGCCAACGACTACCGGCGCCAGTTGCAGTCCTTGACCTGCGAC
CTGGAGTCTCTGCGCGGCACGAACGAGTCCCTGGAGAGGCAGATGCGCGAGCAGGAGGAGCGGCACGTGCGGGAG
GCGGCCAGTTATCAGGAGGCGCTGGCGCGGCTGGAGGAAGAGGGGCAGAGCCTCAAGGACGAGATGGCCCGCCAC
TTGCAGGAGTACCAGGACCTGCTCAATGTCAAGCTGGCCCTGGACATCGAGATCGCCACCTACAGGAAGCTGCTA
GAGGGCGAGGAGAACCGGATCACCATTCCCGTGCAGACCTTCTCCAACCTGCAGATTCGAGAAACCAGCCTGGAC
ACCAAGTCTGTGTCAGAAGGCCACCTCAAGAGGAACATCGTGGTGAAGACCGTGGAGATGCGGGATGGAGAGGTC
ATTAAGGAGTCCAAGCAGGAGCACAAGGATGTGATGTGAGGCAGGACCCACCTGGTGGCCTCTGCCCCGTCTCAT
GAGGGGCCCGAGCAGAAGCAGGATAGTTGCTCCGCCTCTGCTGGCACATTTCCCCAGACCTGAGCTCCCCACCAC
CCCAGCTGCTCCCCTCCCTCCTCTGTCCCTAGGTCAGCTTGCTGCCCTAGGCTCCGTCAGTATCAGGCCTGCCAG
ACGGCACCCACCCAGCACCCAGCAACTCCAACTAACAAGAAACTCACCCCCAAGGGGCAGTCTGGAGGGGCATGG
CCAGCAGCTTGCGTTAGAATGAGGAGGAAGGAGAGAAGGGGAGGAGGGCGGGGGGCACCTACTACATCGCCCTCC
ACATCCCTGATTCCTGTTGTTATGGAAACTGTTGCCAGAGATGGAGGTTCTCTCGGAGTATCTGGGAACTGTGCC
TTTGAGTTTCCTCAGGCTGCTGGAGGAAAACTGAGACTCAGACAGGAAAGGGAAGGCCCCACAGACAAGGTAGCC
CTGGCCAGAGGCTTGTTTTGTCTTTTGGTTTTTATGAGGTGGGATATCCCTATGCTGCCTAGGCTGACCTTGAAC
TCCTGGGCTCAAGCAGTCTACCCACCTCAGCCTCCTGTGTAGCTGGGATTATAGATTGGAGCACCATGCCCAGC
TCAGAGGGTTGTTCTCCTAGACTGACCCTGATCAGTCTAAGATGGGTGGGGACGTCCTGCCACCTGGGGCAGTCA
CCTGCCCAGATCCCAGAAGGACCTCCTGAGCGATGACTCAAGTGTCTCAGTCCACCTGAGCTGCCATCCAGGGAT
GCCATCTGTGGGCACGCTGTGGGCAGGTGGGAGCTTGATTCTCAGCACTTGGGGGATCTGTTGTGTACGTGGAGA
GGGATGAGGTGCTGGGAGGGATAGAGGGGGGGCTGCCTGGCCCCCAGCTGTGGGTACAGAGAGGTCAAGCCCAGGA
GGACTGCCCCGTGCAGACTGGAGGGGACGCTGGTAGAGATGGAGGAGGAGGCAATTGGGATGGCGCTAGGCATAC
AAGTAGGGGTTGTGGGTGACCAGTTGCACTTGGCCTCTGGATTGTGGGAATTAAGGAAGTGACTCATCCTCTTGA
AGATGCTGAAACAGGAGAGAAAGGGGATGTATCCATGGGGGCAGGGCATGACTTTGTCCCATTTCTAAAGGCCTC
TTCCTTGCTGTGTCATACCAGGCCGCCCCCAGCCTCTGAGCCCCTGGGACTGCTGCTTCTTAACCCCAGTAAGCCA
CTGCCACACGTCTGACCCTCTCCACCCCATAGTGACCGGCTGCTTTTCCCTAAGCCAAGGGCCTCTTGCGGTCCC
TTCTTACTCACACACAAAATGTACCCAGTATTCTAGGTAGTGCCCTATTTTACAATTGTAAAACTGAGGCACGAG
CAAAGTGAAGACACTGGCTCATATTCCTGCAGCCTGGAGGCCGGGTGCTCAGGGCTGACACGTCCACCCCAGTGC
ACCCACTCTGCTTTGACTGAGCAGACTGGTGAGCAGACTGGTGGGATCTGTGCCCAGAGATGGGACTGGGAGGGC
CCACTTCAGGGTTCTCCTCTCCCTCTAAGGCCGAAGAAGGGTCCTTCCCTCTCCCCAAGACTTGGTGTCCTTTC
CCTCCACTCCTTCCTGCCACCTGCTGCTGCTGCTGCTGCTAATCTTCAGGGCACTGCTGCTGCCTTTAGTCGCTG
AGGAAAAATAAAGACAAATGCTGCGCCCTT

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FIGURE 4881

CCTCTCTCCGGGCCGTGCCTCCAAG**ATG**ACAAAGAAAAGAAGGAACAATGGGCGTGCCAAAAAGGGCCGCGGCCA
CCTGCAACCTATTCGCTGCACTAACTGTGCCCGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTCG
AAACATAGTGGAGGCCGCAACAGTCAGGGACATTTCTGAAGTGAGCGTCTTCGATGCCTATGTGCTTCCCAAACT
GTATGTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCG
CAAGGACCGAACACCCCCACCCCGATTTAGACCTGCGGGTGCTGCCCCAGGTCCCCCACCAAAGCCCATG**TAA**GG
AGCTGAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

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FIGURE 4882

MTKKRRNNGRAKKGRGHLQPIRWTNCARCVPKDKGIKKFVIRNIVEAATVRDISEVSVFDAYVLPKLYVKLHYCV
SCAIHSKVVRNRSREARKDRTPPPRFRPAGAAPGPPPKPM

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FIGURE 4883A

GGCACGAGGCTGCTCTCGCAACTCAAG**ATG**GCGGACGAGAGTGAGACAGCAGTGAAGCCGCCGGCACCTCCGCTG
CCGCAGATGATGGAAGGGAACGGGAACGGCCATGAGCACTGCAGCGATTGCGAGAATGAGGAGGACAACAGCTAC
AACCGGGGTGGTTTGAGTCCAGCCAATGACACTGGAGCCAAAAAGAAGAAAAAGAAACAAAAAAAGAAGAAAGAA
AAAGGCAGTGAGACAGATTCAGCCCAGGATCAGCCTGTGAAGATGAACTCTTTGCCAGCAGAGAGGATCCAGGAA
ATACAGAAGGCCATTGAGCTGTTCTCAGTGGGTCAGGGACCTGCCAAAACCATGGAGGAGGCTAGCAAGCGAAGC
TACCAGTTCTGGGATACGCAGCCCGTCCCCAAGCTGGGCGAAGTGGTGAACACCCATGGCCCCGTGGAGCCTGAC
AAGGACAATATCCGCCAGGAGCCCTACACCCTGCCCCAGGGCTTCACCTGGGATGCTTTGGACTTGGGCGATCGT
GGTGTGCTAAAAGAACTGTACACCCTCCTGAATGAGAACTATGTGGAAGATGATGACAACATGTTCCGATTTGAT
TATTCCCCGGAGTTTCTTTTGTGGGCTCTCCGGCCACCCGGCTGGCTCCCCCAGTGGCACTGTGGGGTTCGAGTG
GTCTCAAGTCGGAAATTGGTTGGGTTCATTAGCGCCATCCCAGCAAACATCCATATCTATGACACAGAGAAGAAG
ATGGTAGAGATCAACTTCCTGTGTGTCCACAAGAAGCTGCGTTCCAAGAGGGTTGCTCCAGTTCTGATCCGAGAG
ATCACCAGGCGGGTTCACCTGGAGGGCATCTTCCAAGCAGTTTACACTGCCGGGGTGGTACTACCAAAGCCCGTT
GGCACCTGCAGGTATTGGCATCGGTCCCTAAACCCACGGAAGCTGATTGAAGTGAAGTTCTCCCACCTGAGCAGA
AATATGACCATGCAGCGCACCATGAAGCTCTACCGACTGCCAGAGACTCCCAAGACAGCTGGGCTGCGACCAATG
GAAACAAAGGACATTCCAGTAGTGCACCAGCTCCTCACCAGGTACTTGAAGCAATTTCACCTTACGCCCGTCATG
AGCCAGGAGGAGGTGGAGCACTGGTTCTACCCCCAGGAGAATATCATCGACACTTTCGTGGTGGAGAACGCAAAC
GGAGAGGTGACAGATTTCCTGAGCTTTTATACGCTGCCCTCCACCATCATGAACCATCCAACCCACAAGAGTCTC
AAAGCTGCTTATTCTTTCTACAACGTTCACACCCAGACCCCTCTTCTAGACCTCATGAGCGACGCCCTTGTCCTC
GCCAAAATGAAAGGGTTTGATGTGTTCAATGCACTGGATCTCATGGAGAACAAAACCTTCCTGGAGAAGCTCAAG
TTTGGCATAGGGGACGGCAACCTGCAGTATTACCTTTACAATTGGAAATGCCCCAGCATGGGGGCAGAGAAGGTT
GGACTGGTGCTACAA**TAA**CCAGTCACCAGTGCGATTCTGGATAAAGCCACTGAAAATTCGAACCAGGAAATGGAA
CCCCACCACTGTTGGTCCAATTTTCACACACGTGAGAATCCCTGGCAAAGGGAGCAGAACTGAACCGGCTTTACC
AAACCGCCAGCGAACTTGACAATTGTATTGCGATGGCGTGGGCTGCGTGACGTCACCTCCGGTCGTGTCTCTGGT
CTCCGTGTTTTCCAGTTAATTACATCCTCATGCAGCCGTGATCAAGGGAATGTAACTGCTGAAAACTAGCTCGTG
ATTGGCATATAATGGAGTTAACGGGTGAATAATAAAAGTATATATATATATTATATATATATAAATATTTTAAAT
ATCTTTCATGTTCCAAATGTACAAGGATGTTTGGTCTTTAATGAAAAGCTGAATCTAGATCATTCCTCAGAATGA
GGACCCGAGGACAGTGGCAGACAGACGCGTTGGCACAGTTCATGGTTTCCTCCAGAGGAGACATTGGCTTATCAT
GGGGAAAAAGAGGATCTGGAGAACCTCATCCAGCTCCCCTTCTGAATCAGCTGGGATGACTGGCTTTGAGAAGGA
AGGGAAGATGGAACAGGCTCAGATCTCATGGGATAGCACGTGGAGCTCTTGGCTGGGGCTGACCCTGGGCAGGGA
CTTTCCTGCAGGGCCAGACCTGCCTGCATTCTGAGACAAAGCAATGGACGGTCCGCAGAAGCAGACCTCATTGAT
TGAGTCCTTTCTTCCATCCCCTTGGCCTGCTCCCTGTAGGAAGTCATCCTGCCAACTGATTTAAAAGGGCTCTTT
AGCCAGTTGTTGCCAACCTTATAGGGATGAGTCCCCTGTGAGATTTTGCTTTTCCACTGCCTGGGATGATGCAGT
TTGAAGAGGCCCTTGGACCTCCTTGTAACATCAGGGACCTTTGGAGACCATTATCAGTGTAAGCCCTGCTTAGCT
CATCTTAGAGCAAAGAGCCAGCACCCTGATGTCCCTGGGGTGGCTAGGCAGGAGTGGCGTGGGGCCAATACCCAG
ACCCCTTCAGCCACCAGCCCCTGGCCTGTGCCTTCCAACCCATTAGCCATTTCTTGTTGTGCCCCTTTCCAAGAT
ACAGCCTGCAAGTGGTAGCAAGAAGTGATTAGAGGCAGATCTGGACTTGGCAACAGAAGTGGTTTCCCATCTCCA
TTGTCTGAGTCTGATTTTCGCTGATGCTGTTTTGTGGATTTTTGTGGTAGTGATGGTTGTCAGTGCTGCCAGTTT
CCCAAAACGTAATCAAGCCTCTGGTCACATGGCTGTCGATGTAGGCATTCTGGAGTGGTGTTCAGCCAAGTGACC
GGGCAAAATTGGGCTGTGAAATTGTACTTCCAGGCTTGGATGTAATTTTTGCTCTAGAGAAGCAAGTGGTGGG
AAGGAGGTAGCATGACGTGTGGTGTGCGGGTTTCCTTGCTGCCGTCACCTCTCCGCTCATACAGGAATGAAGCCT
TAGCCAGGAGGCCAGGCTCAGCCCTGTGCCACTCACCGAAGCCACTTTCTACAGGCCAGCAGGGGCTTGTTGCAG
GCTGTGGGTTTTGGTGTGGTTTGTCAGAGGCTAATTCTGCAGAGTTTCCAAAACCAGAAGACATCGTATGCTTGG
GATGGGGGCCGTGCCACCCGTGGGAATGCTGCCCGCTCTGCAGACTGCTGCTAGAGCCAGCAACTCCACTAAGGT
GGATTTTCATCAGGGGCCTGCAGGGCCCTCCCTTTTCCCATTGTTCCTGCGCTGCAAATTGCAGGCCCCAGCAAT
CGTGACTGACGTTTGCTCCTTGACTCCAAGAAACTGAGACCAAAGAAGCTGCTGTTCTTAGCAAGATGCGCACTG
CATTCCACAGGTGGGAGGAGTCGGAGAGGCAGGGGCTTGCTTTGCAGCCCCACAGACAACAGTTGCACAGTGCCT
CAAGCCCCAGAGTGGCTCACCCTGTCCAGACCTTTGAGGATATCAAAGGACAAAGTGCCCAAGTCTTTCCTACCT
TGGGGGAACCTGGAACTTGGAAAGGCTCCCTGTCCTAGTCTTGATCTGTTCTGGGCCAGGTCCCAGCTTGAGCTG

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FIGURE 4883B

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CCTCTGAGATTTGGGCTGTGCGGATCTCTGGAGTGAGCTCTGTTTCGGTTGACCCAGGTCATGGAATGGAAACGG
TGAGGCCCCAGTGGCTGTTCTGGAAGAAACAGATCTCCTGGCAAAGGCCCCAGCATCTCCCTCACTGAAACCAGG
TGGCCGGCTCCTCGGACTCTGCTTTATGTTGCGGTGAGAACTCTGCCCAGGTGTGCAGGGTTTGGCTTGTGGGCT
GCTTGCTGCTCATCTGATTTTTGTCCCAGTAGTCCCTGCGTTCTTCATTCAACCCCTTCTGGGACTTCAGCTCAG
AGAGCACCATCCCGGGGGTCAGGGCCTCCCCACAGGAGCCCTGCAGTGTGGTAGCGCCATGGCTGTCTCAAACCA
AGCAAAGGAAGGACCCTGAGGCCTTCACGCTAACCATCCTCGAGCAACTGCTGTTGGAAGGCCTCCCTGGGCCTG
GCCCCCACCCTCTGCCACCCAGTCCTCCCAGCTGCCATGTTTCAAAGACGACCTTTACCTCCTGCCTTTGGATTG
ACTCTGCATTTGACCACGGACTCCAGTCTGTGTGTAGGGAGAGAGCTGAGTAGGAGGCCTCCACTCCGGATCGAG
GCCTGTATAGGGCTCGTTTCCCCACACATGCCTATTTCTGAAGAGGCTTCTGTCTTATTTGAAGGCCAGCCCACA
CCCAGCTACTTTAACACCAGGTTTATGGAAAATGTCAGGCCTTCCCCACAACTCCTGTCTAACTGCTGTCGCCCC
CCTACTTGCTGGCTCTCAGAAGCCTAGGGGAGTCCCTGTGGTCCTGAATTCTTTCCCCAAAGACGACCAGCATTT
AACCAACCTAAGGGCCCAAAGGCCTTGGACAACTGCATGGAGCTGCACTCTAGGAGAAGGAGGGGAACCAGATGT
TAGATCAGGGGAGGGAGCAGGAGTGTCCCTCCCGTCAGTGCCTACCCACCTGTGAGGCAGCCTTCTGATGGCCTG
GCCCACCTTCCCCAGAACCAGGGGAGGCCTGAGGCTTCAGTTTTACTCTGCTGCAAAATGAAGGCGGGCCTGCAA
GCCGACTACACCTACGGAGGCTGTTGAGGACAATTTCATTCCATTAAATTAAAAAATACTGACTGGCTGGCAGGC
AGGTGCCATGTCTGGGAACAGGGACGGGGGAGCTTCACCTTTTTGTCTTGGCTTTTCTTTGGGCTGTGGGGGGGC
ATCCATTTCCAGGGTCGGGGAGGAAATACCAAATGCATTGTTGTTCTGCTCAATACATCTCACTTGTTTCTAATA
AAGAAAGCAGCTGAACAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 4884

MADESETAVKPPAPPLPQMMEGNGNGHEHCSDCENEEDNSYNRGGLSPANDTGAKKKKKKQKKKKEKGSETDSAQ
DQPVKMNSLPAERIQEIQKAIELFSVGQGPAKTMEEASKRSYQFWDTQPVPKLGEVVNTHGPVEPDKDNIRQEPY
TLPQGFTWDALDLGDRGVLKELYTLLNENYVEDDDNMFRFDYSPEFLLWALRPPGWLPQWHCGVRVVSSRKLVGF
ISAIPANIHIYDTEKKMVEINFLCVHKKLRSKRVAPVLIREITRRVHLEGIFQAVYTAGVVLPKPVGTCRYWHRS
LNPRKLIEVKFSHLSRNMTMQRTMKLYRLPETPKTAGLRPMETKDIPVVHQLLTRYLKQFHLTPVMSQEEVEHWF
YPQENIIDTFVVENANGEVTDFLSFYTLPSTIMNHPTHKSLKAAYSFYNVHTQTPLLDLMSDALVLAKMKGFDVF
NALDLMENKTFLEKLKFGIGDGNLQYYLYNWKCPSMGAEKVGLVLQ

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FIGURE 4885

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TTCGCTCGCCGCCTCGCTCAGAGCCGGGGCCGGGCCAGAGCGGCGCCCCGCTGCCCTGTCCCCGCGTGCAGACCC
CGGGCCCGGCCCCGGCCCCCCGCCAAGCCATGCTGTGCGGCCGCTGGAGGCGTTGCCGCCGCCCGCCCGAGGAGC
CCCCGGTGGCCGCCCAGGTCGCAGCCCAAGTCGCGGCGCCGGTCGCTCTCCCGTCCCCGCCGACTCCCTCCGATG
GCGGCACCAAGAGGCCCGGGCTGCGGGCGCTGAAGAAGATGGGCCTGACGGAGGACGAGGACGTGCGCGCCATGC
TGCGGGGCTCCCGGCTCCGCAAGATCCGCTCGCGCACGTGGCACAAGGAGCGGCTGTACCGGCTGCAGGAGGACG
GCCTGAGCGTGTGGTTCCAGCGGCGCATCCCGCGTGCGCCATCGCAGCACATCTTCTTCGTGCAGCACATCGAGG
CGGTCCGCGAGGGCACCAGTCCGAGGGCCTGCGGCGCTTCGGGGGTGCCTTCGCGCCAGCGCGCTGCCTCACCA
TCGCCTTCAAGGGCCGCCGCAAGAACCTGGACCTGGCGGCGCCCACGGCTGAGGAAGCGCAGCGCTGGGTGCGCG
GTCTGACCAAGCTCCGCGCGCGCCTGGACGCCATGAGCCAGCGCGAGCGGCTAGACCACTGGATCCACTCCTATC
TGCACCGGGCTGACTCCAACCAGGACAGCAAGATGAGCTTCAAGGAGATCAAGAGCCTGCTGAGAATGGTCAACG
TGGACATGAACGACATGTACGCCTACCTCCTCTTCAAGGAGTGTGACCACTCCAACAACGACCGTCTAGAGGGGG
CTGAGATCGAGGAGTTCCTGCGGCGGCTGCTGAAGCGGCCGGAGCTGGAGGAGATCTTCCATCAGTACTCGGGCG
AGGACCGCGTGCTGAGTGCCCCTGAGCTGCTGGAGTTCCTGGAGGACCAGGGCGAGGAGGGCGCCACACTGGCCC
GCGCCCAGCAGCTCATTCAGACCTATGAGCTCAACGAGACAGCCAAGCAGCATGAGCTGATGACACTGGATGGCT
TCATGATGTACCTGTTGTCGCCGGAGGGGGCTGCCTTGGACAACACCCACACGTGTGTGTTCCAGGACATGAACC
AGCCCCTTGCCCACTACTTCATCTCTTCCTCCCACAACACCTATCTGACTGACTCCCAGATCGGGGGGCCCAGCA
GCACCGAGGCCTATGTTAGGGCCTTTGCCCAGGGATGCCGCTGCGTGGAGCTGGACTGCTGGGAGGGGCCAGGAG
GGGAGCCCGTCATCTATCATGGCCATACCCTCACCTCCAAGATTCTCTTCCGGGACGTGGTCCAAGCCGTGCGCG
ACCATGCCTTCACGCTGTCCCCTTACCCTGTCATCCTATCCCTGGAGAACCACTGCGGGCTGGAGCAGCAGGCTG
CCATGGCCCGCCACCTCTGCACCATCCTGGGGGGACATGCTGGTGACACAGGCGCTGGACTCCCCAAATCCCGAGG
AGCTGCCATCCCCAGAGCAGCTGAAGGGCCGGGTCCTGGTGAAGGGAAAGAAGTTGCCCGCTGCTCGGAGCGAGG
ATGGCCGGGCTCTGTCGGATCGGGAGGAGGAGGAGGAGGATGACGAGGAGGAAGAAGAGGAGGTGGAGGCTGCAG
CGCAGAGGCGGCTGGCCAAGCAGATCTCCCCGGAGCTGTCGGCCCTGGCTGTGTACTGCCACGCCACCCGCCTGC
GGACCCTGCACCCTGCCCCCAACGCCCCACAACCCTGCCAGGTCAGCTCCCTCAGCGAGCGCAAAGCCAAGAAAC
TCATTCGGGAGGCAGGGAACAGCTTTGTCAGGCACAATGCCCGCCAGCTGACCCGCGTGTACCCGCTGGGGCTGC
GGATGAACTCAGCCAACTACAGTCCCCAGGAGATGTGGAACTCGGGCTGTCAGCTGGTGGCCTTGAACTTCCAGA
CGCCAGGCTACGAGATGGACCTCAATGCCGGGCGCTTCCTAGTCAATGGGCAGTGTGGCTACGTCCTAAAACCTG
CCTGCCTGCGGCAACCTGACTCGACCTTTGACCCCGAGTACCCAGGACCTCCCAGAACCACTCTCAGCATCCAGG
TGCTGACTGCACAGCAGCTGCCCAAGCTGAATGCCGAGAAGCCACACTCCATTGTGGACCCCCTGGTGCGCATTG
AGATCCATGGGGTGCCCGCAGACTGTGCCCGGCAGGAGACTGACTACGTGCTCAACAATGGCTTCAACCCCCGCT
GGGGGCAGACCCTGCAGTTCCAGCTGCGGGCTCCGGAGCTGGCACTGGTCCGGTTTGTGGTGGAAGATTATGACG
CCACCTCCCCCAATGACTTTGTGGGCCAGTTTACACTGCCTCTTAGCAGCCTAAAGCAAGGGTACCGCCACATAC
ACCTGCTTTCCAAGGACGGGGCCTCACTGTCACCAGCCACGCTCTTCATCCAAATCCGCATCCAGCGCTCCTGAG
TAGCTGGGACTACAGGCACAGGCCACCACACCTGGCTAATGTTTAAATTTTATGTAGAGATGGCGGGGGGGGCGG
GGGTCTCCCTATGCTGCCCAGGCTGGTCTCGAGCTCCTGACCTCAAGTGATCCTCCTGCCCCAGCATTCCAAAGT
GCTGGGATTACAGGTGTGAGCCACTGCCTGGCCTGGCCGTAGGTTTGTAACTGTTTCATAGAAGAGCCCTGGAGA
AGACAGTAGAATGAGCCTATCTAGTTTAAAAAATAAAGAAGCACGTTGATTTCAAAAAAAAAAAAAAAAAAAA
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FIGURE 4886

MLCGRWRRCRRPPEEPPVAAQVAAQVAAPVALPSPPTPSDGGTKRPGLRALKKMGLTEDEDVRAMLRGSRLRKIR
SRTWHKERLYRLQEDGLSVWFQRRIPRAPSQHIFFVQHIEAVREGHQSEGLRRFGGAFAPARCLTIAFKGRRKNL
DLAAPTAEEAQRWVRGLTKLRARLDAMSQRERLDHWIHSYLHRADSNQDSKMSFKEIKSLLRMVNVDMNDMYAYL
LFKECDHSNNDRLEGAEIEEFLRRLLKRPELEEIFHQYSGEDRVLSAPELLEFLEDQGEEGATLARAQQLIQTYE
LNETAKQHELMTLDGFMMYLLSPEGAALDNTHTCVFQDMNQPLAHYFISSSHNTYLTDSQIGGPSSTEAYVRAFA
QGCRCVELDCWEGPGGEPVIYHGHTLTSKILFRDVVQAVRDHAFTLSPYPVILSLENHCGLEQQAAMARHLCTIL
GDMLVTQALDSPNPEELPSPEQLKGRVLVKGKKLPAARSEDGRALSDREEEEEDDEEEEEEVEAAAQRRLAKQIS
PELSALAVYCHATRLRTLHPAPNAPQPCQVSSLSERKAKKLIREAGNSFVRHNARQLTRVYPLGLRMNSANYSPQ
EMWNSGCQLVALNFQTPGYEMDLNAGRFLVNGQCGYVLKPACLRQPDSTFDPEYPGPPRTTLSIQVLTAQQLPKL
NAEKPHSIVDPLVRIEIHGVPADCARQETDYVLNNGFNPRWGQTLQFQLRAPELALVRFVVEDYDATSPNDFVGQ
FTLPLSSLKQGYRHIHLLSKDGASLSPATLFIQIRIQRS

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FIGURE 4887

CGGCCACGAGGCGGAATCCCTTCTGCTCTCCCAGCGCAGCGCCGCCGCCCGGCCCCTCCAGCTTCCCGGACC**ATG**

GCCAACCTGGAGCGCACCTTCATCGCCATCAAGCCGGACGGCGTGCAGCGCGGCCTGGTGGGCGAGATCATCAAG
CGCTTCGAGCAGAAGGGATTCCGCCTCGTGGCCATGAAGTTCCTCCGGGCCTCTGAAGAACACCTGAAGCAGCAC
TACATTGACCTGAAAGACCGACCATTCTTCCCTGGGCTGGTGAAGTACATGAACTCAGGGCCGGTTGTGGCCATG
GTCTGGGAGGGGCTGAACGTGGTGAAGACAGGCCGAGTGATGCTTGGGGAGACCAATCCAGCAGATTCAAAGCCA
GGCACCATTCGTGGGGACTTCTGCATTCAGGTTGGCAGGAACATCATTCATGGCAGTGATTCAGTAAAAAGTGCT
GAAAAAGAAATCAGCCTATGGTTTAAGCCTGAAGAACTGGTTGACTACAAGTCTTGTGCTCATGACTGGGTCTAT
GAA**TAA**GAGGTGGACACAACAGCAGTCTCCTTCAGCACGGCGTGGTGTGTCCCTGGACACAGCTCTTCATTCCAT
TGACTTAGAGGCAACAGGATTGATCATTCTTTTATAGAGCATATTTGCCAATAAAGCTTTTGGAAGCCGG

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FIGURE 4888

MANLERTFIAIKPDGVQRGLVGEIIKRFEQKGFRLVAMKFLRASEEHLKQHYIDLKDRPFFPGLVKYMNSGPVVA
MVWEGLNVVKTGRVMLGETNPADSKPGTIRGDFCIQVGRNIIHGSDSVKSAEKEISLWFKPEELVDYKSCAHDWV
YE

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FIGURE 4889

TGCTGCGAACCACGTGGGTCCCGGGCGCGTTTCGGGTGCTGGCGGCTGCAGCCGGAGTTCAAACCTAAGCAGCTG
GAAGGAACC**ATG**GCCAACTGTGAGCGTACCTTCATTGCGATCAAACCAGATGGGGTCCAGCGGGGTCTTGTGGGA
GAGATTATCAAGCGTTTTGAGCAGAAAGGATTCCGCCTTGTTGGTCTGAAATTCATGCAAGCTTCCGAAGATCTT
CTCAAGGAACACTACGTTGACCTGAAGGACCGTCCATTCTTTGCCGGCCTGGTGAAATACATGCACTCAGGGCCG
GTAGTTGCCATGGTCTGGGAGGGGCTGAATGTGGTGAAGACGGGCCGAGTCATGCTCGGGGAGACCAACCCTGCA
GACTCCAAGCCTGGGACCATCCGTGGAGACTTCTGCATACAAGTTGGCAGGAACATTATACATGGCAGTGATTCT
GTGGAGAGTGCAGAGAAGGAGATCGGCTTGTGGTTTCACCCTGAGGAACTGGTAGATTACACGAGCTGTGCTCAG
AACTGGATCTATGAA**TGA**CAGGAGGGCAGACCACATTGCTTTTCACATCCATTTCCCCTCCTTCCCATGGGCAGA
GGACCAGGCTGTAGGAAATCTAGTTATTTACAGGAACTTCATCATAATTTGGAGGGAAGCTCTTGGAGCTGTGAG
TTCTCCCTGTACAGTGTTACCATCCCCGACCATCTGATTAAAATGCTTCCTCCCAGC

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FIGURE 4890

MANCERTFIAIKPDGVQRGLVGEIIKRFEQKGFRLVGLKFMQASEDLLKEHYVDLKDRPFFAGLVKYMHSGPVVA
MVWEGLNVVKTGRVMLGETNPADSKPGTIRGDFCIQVGRNIIHGSDSVESAEKEIGLWFHPEELVDYTSCAQNWI
YE

5301/6881
FIGURE 4891

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GACAACTTGAGCTGAAAGCGAAAAACTATGCTGACCAGATTAGCAGACTTGAAGAAAGAGAAGCAGAACTGAAGA
AGGAATATAATGCATTACATCAAAGACACACTGAGATGATCCATAATTATATGGAACATTTAGAAAGAACAAAAC
TTCATCAGCTCTCAGGGAGTGATCAACTAGAATCCACAGCTCATAGTAGAATTAGAAAAGAACGCCCTATATCAT
TAGGAATTTTCCCATTACCTGCTGGAGATGGATTGCTTACACCTGATGCTCAGAAAGGAGGAGAGACCCCTGGAT
CTGAGCAATGGAAATTTCAGGAATTAAGTCAACCACGTTCTCATACCAGCCTGAAGGATGAGCTTTCTGATGTTA
GCCAAGGCGGATCTAAAGCTACCACTCCAGCATCAACAGCTAATTCAGATGTGGCAACAATTCCTACTGATACTC
CCTTAAAGGAAGAAAACGAAGGATTTGTGAAGGTTACAGATGCGCCAAATAAATCAGAGATAAGCAAACACATTG
AAGTACAGGTAGCCCAGGAAACTAGAAATGTATCTACTGGCTCTGCTGAAAATGAAGAAAAGTCAGAAGTTCAAG
CAATCATCGAATCTACTCCTGAGCTGGATATGGACAAAGATCTCAGTGGATATAAAGGTTCAAGCACTCCCACCA
AAGGCATAGAGAACAAAGCTTTTGATCGCAATACAGAATCTCTCTTTGAAGAACTGTCTTCAGCTGGCTCAGGCC
TAATAGGAGATGTGGATGAAGGAGCAGATTTACTAGGAATGGGTCGGGAAGTTGAGAATCTTATATTAGAAAATA
CACAACTGTTGGAAACCAAAAATGCTTTGAACATAGTGAAGAATGATTTGATAGCAAAAGTGGATGAACTGACCT
GTGAGAAAGATGTGCTGCAAGGGGAATTGGAGGCTGTGAAGCAAGCCAAACTGAAACTAGAGGAAAAGAACAGAG
AATTGGAGGAAGAGCTTAGGAAAGCTCGGGCAGAAGCTGAAGATGCAAGGCAAAAAGCAAAAGATGACGATGATA
GTGATATTCCCACAGCCCAGAGGAAACGGTTTACTAGAGTAGAAATGGCCCGTGTTCTCATGGAGCGAAACCAGT
ATAAAGAGAGATTGATGGAGCTTCAGGAAGCTGTTCGATGGACAGAGATGATTCGGGCATCACGAGAAAATCCAG
CCATGCAGGAAAAAAAAAGGTCAAGCATTTGGCAGTTTTTCAGCCGACTTTTCAGCTCCTCAAGTAACACGACTA
AGAAGCCTGAACCACCTGTTAATCTGAAGTACAATGCACCCACGTCTCATGTTACTCCGTCCGTCAAGAAAAGAA
GCAGCACCTTATCTCAGCTCCCTGGGGATAAGTCCAAAGCCTTTGATTTCCTTAGTGAAGAAACTGAAGCTAGTT
TAGCCTCACGCAGAGAACAAAAGAGAGAGCAGTATCGTCAGGTAAAAGCACATGTTCAGAAGGAAGACGGTAGAG
TGCAGGCTTTTGGCTGGAGTCTGCCTCAGAAGTACAAACAGGTAACCAATGGTCAAGGTGAAAATAAGATGAAAA
ATTTACCTGTGCCTGTCTATCTCAGACCTCTGGATAAAAAAGATACATCAATGAAGCTGTGGTGTGCTGTTGGAG
TCAATTTATCTGGTGGGAAGACCAGAGATGGTGGTTCTGTTGTTGGAGCAAGTGTATTTTACAAGGATGTTGCTG
GTTTGGATACAGAAGGCAGTAAACAGCGAAGTGCCTCTCAGAGTAGTTTAGATAAGTTAGATCAGGAACTTAAGG
AACAGCAGAAGGAGTTAAAAAATCAAGAAGAATTATCCAGTCTAGTTTGGATCTGTACCAGCACTCATTCGGCTA
CAAAAGTTCTTATTATTGATGCTGTTCAACCTGGCAACATCCTAGACAGTTTCACTGTTTGCAACTCTCATGTTC
TGTGCATTGCAAGTGTGCCAGGTGCACGAGAAACAGACTACCCTGCAGGAGAAGATCTTTCAGAATCTGGTCAGG
TAGACAAAGCATCTTTATGTGGAAGTATGACAAGCAACAGCTCAGCAGAGACAGACAGCCTGTTAGGAGGCATCA
CAGTGGTTGGTTGTTCTGCAGAAGGTGTGACGGGAGCTGCCACTTCCCCTAGTACAAATGGTGCTTCTCCAGTGA
TGGATAAACCACCAGAAATGGAAGCAGAAAATAGTGAGGTTGATGAAAATGTTCCAACAGCAGAAGAAGCAACTG
AAGCTACAGAAGGGAATGCGGGGTCAGCTGAAGCACACAGTGGACATCTCCCAAACTGGCGTCTACACAGAGCATG
TCTTTACAGATCCTTTGGGAGTTCAGATCCCAGAAGACCTCTCCCCAGTGTATCAGTCGAGGTATAATAATGGGT
CATCAACTTAGGCAACTGGGTGAAGTGCACAAATAAAAGGAACCAAAATAATCTCAAACAGTCAAAAGATTTCCA
CTAATTAGTGTCACTGTGGTGGATTAAAAGATACCTATTCTTGTGATA
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FIGURE 4892

MIHNYMEHLERTKLHQLSGSDQLESTAHSRIRKERPISLGIFPLPAGDGLLTPDAQKGGETPGSEQWKFQELSQP
RSHTSLKDELSDVSQGGSKATTPASTANSDVATIPTDTPLKEENEGFVKVTDAPNKSEISKHIEVQVAQETRNVS
TGSAENEEKSEVQAIIESTPELDMDKDLSGYKGSSTPTKGIENKAFDRNTESLFEELSSAGSGLIGDVDEGADLL
GMGREVENLILENTQLLETKNALNIVKNDLIAKVDELTCEKDVLQGELEAVKQAKLKLEEKNRELEEELRKARAE
AEDARQKAKDDDDSDIPTAQRKRFTRVEMARVLMERNQYKERLMELQEAVRWTEMIRASRENPAMQEKKRSSIWQ
FFSRLFSSSSNTTKKPEPPVNLKYNAPTSHVTPSVKKRSSTLSQLPGDKSKAFDFLSEETEASLASRREQKREQY
RQVKAHVQKEDGRVQAFGWSLPQKYKQVTNGQGENKMKNLPVPVYLRPLDKKDTSMKLWCAVGVNLSGGKTRDGG
SVVGASVFYKDVAGLDTEGSKQRSASQSSLDKLDQELKEQQKELKNQEELSSLVWICTSTHSATKVLIIDAVQPG
NILDSFTVCNSHVLCIASVPGARETDYPAGEDLSESGQVDKASLCGSMTSNSSAETDSLLGGITVVGCSAEGVTG
AATSPSTNGASPVMDKPPEMEAENSEVDENVPTAEEATEATEGNAGSAEDTVDISQTGVYTEHVFTDPLGVQIPE
DLSPVYQSRYNNGSST

FIGURE 4893A

CTCCGGCGCCCGCTCTGCCCGCCGCTGGGTCCGACCGCGCTCGCCTTCCTTGCAGCCGCGCCTCGGCCCC**ATG**GA
CGCCCTGTGCGGTTCCGGGGAGCTCGGCTCCAAGTTCTGGGACTCCAACCTGTCTGTGCACACAGAAAACCCGGA
CCTCACTCCCTGCTTCCAGAACTCCCTGCTGGCCTGGGTGCCCTGCATCTACCTGTGGGTCGCCCTGCCCTGCTA
CTTGCTCTACCTGCGGCACCATTGTCGTGGCTACATCATCCTCTCCCACCTGTCCAAGCTCAAGATGGTCCTGGG
TGTCCTGCTGTGGTGCGTCTCCTGGGCGGACCTTTTTTACTCCTTCCATGGCCTGGTCCATGGCCGGGCCCCTGC
CCCTGTTTTCTTTGTCACCCCCTTGGTGGTGGGGGGTCACCATGCTGCTGGCCACCCTGCTGATACAGTATGAGCG
GCTGCAGGGCGTACAGTCTTCGGGGGGTCCTCATTATCTTCTGGTTCCTGTGTGTGGTCTGCGCCATCGTCCCATT
CCGCTCCAAGATCCTTTTAGCCAAGGCAGAGGGTGAGATCTCAGACCCCTTCCGCTTCACCACCTTCTACATCCA
CTTTGCCCTGGTACTCTCTGCCCTCATCTTGGCCTGCTTCAGGGAGAAACCTCCATTTTTCTCCGCAAAGAATGT
CGACCCTAACCCCTACCCTGAGACCAGCGCTGGCTTTCTCTCCCGCCTGTTTTTCTGGTGGTTCACAAAGCTGCT
AAACCCTGACCCTCTGCGGGGCTGCCTGCCGGGCTTCACCTCCCCCCAGGATGGCCATCTATGGCTACCGGCATC
CCCTGGAGGAGAAGGACCTCTGGTCCCTAAAGGAAGAGGACAGATCCCAGATGGTGGTGCAGCAGCTGCTGGAGG
CATGGAGGAAGCAGGAAAAGCAGACGGCACGACACAAGGCTTCAGCAGCACCTGGGAAAAATGCCTCCGGCGAGG
ACGAGGTGCTGCTGGGTGCCCGGCCCAGGCCCCGGAAGCCCTCCTTCCTGAAGGCCCTGCTGGCCACCTTCGGCT
CCAGCTTCCTCATCAGTGCCTGCTTCAAGCTTATCCAGGACCTGCTCTCCTTCATCAATCCACAGCTGCTCAGCA
TCCTGATCAGGTTTATCTCCAACCCCATGGCCCCCTCCTGGTGGGGCTTCCTGGTGGCTGGGCTGATGTTCCTGT
GCTCCATGATGCAGTCGCTGATCTTACAACACTATTACCACTACATCTTTGTGACTGGGGTGAAGTTTCGTACTG
GGATCATGGGTGTCATCTACAGGAAGGCTCTGGTTATCACCAACTCAGTCAAACGTGCGTCCACTGTGGGGGAAA
TTGTCAACCTCATGTCAGTGGATGCCCAGCGCTTCATGGACCTTGCCCCCTTCCTCAATCTGCTGTGGTCAGCAC
CCCTGCAGATCATCCTGGCGATCTACTTCCTCTGGCAGAACCTAGGTCCCTCTGTCCTGGCTGGAGTCGCTTTCA
TGGTCTTGCTGATTCCACTCAACGGAGCTGTGGCCGTGAAGATGCGCGCCTTCCAGGTAAAGCAAATGAAATTGA
AGGACTCGCGCATCAAGCTGATGAG**TGA**GATCCTGGACGGCATCAAGGTGCTGAAGCTGTACGCCTGGGAGCCCA
GCTTCCTGAAGCAGGTGGAGGGCATCAGGCAGGGTGAGCCCCAGCTGCTGCGCACGGCGGCCTACCTCCACACCA
CAACCACCTTCACCTGGATGTGCAGCCCCTTCCTGGTGACCCTGATCACCCTCTGGGTGTACGTGTACGTGGACC
CAAACAATGTGCTGGACGCCGAGAAGGCCTTTGTGTCTGTGTCCTTGTTTAATATCTTAAGACTTCCCCTCAACA
TGCTGCCCCAGTTAATCAGCAACCTGACTCAGGCCAGTGTGTCTCTGAAACGGATCCAGCAATTCCTGAGCCAAG
AGGAACTTGACCCCCAGAGTGTGGAAAGAAAGACCATCTCCCCAGGCTATGCCATCACCATACACAGTGGCACCT
TCACCTGGGCCCAGGACCTGCCCCCCACTCTGCACAGCCTAGACATCCAGGTCCCGAAAGGGGCACTGGTGGCCG
TGGTGGGGCCTGTGGGCTGTGGGAAGTCCTCCCTGGTGTCTGCCCTGCTGGGAGAGATGGAGAAGCTAGAAGGCA
AAGTGCACATGAAGGGCTCCGTGGCCTATGTGCCCCAGCAGGCATGGATCCAGAACTGCACTCTTCAGGAAAACG
TGCTTTTCGGCAAAGCCCTGAACCCCAAGCGCTACCAGCAGACTCTGGAGGCCTGTGCCTTGCTAGCTGACCTGG
AGATGCTGCCTGGTGGGGATCAGACAGAGATTGGAGAGAAGGGCATTAACCTGTCTGGGGGCCAGCGGCAGCGGG
TCAGTCTGGCTCGAGCTGTTTACAGTGATGCCGATATTTTCTTGCTGGATGACCCACTGTCCGCGGTGGACTCTC
ATGTGGCCAAGCACATCTTTGACCACGTCATCGGGCCAGAAGGCGTGCTGGCAGGCAAGACGCGAGTGCTGGTGA
CGCACGGCATTAGCTTCCTGCCCCAGACAGACTTCATCATTGTGCTAGCTGATGGACAGGTGTCTGAGATGGGCC
CGTACCCAGCCCTGCTGCAGCGCAACGGCTCCTTTGCCAACTTTCTCTGCAACTATGCCCCCGATGAGGACCAAG
GGCACCTGGAGGACAGCTGGACCGCGTTGGAAGGTGCAGAGGATAAGGAGGCACTGCTGATTGAAGACACACTCA
GCAACCACACGGATCTGACAGACAATGATCCAGTCACCTATGTGGTCCAGAAGCAGTTTATGAGACAGCTGAGTG
CCCTGTCCTCAGATGGGGAGGGACAGGGTCGGCCTGTACCCCGGAGGCACCTGGGTCCATCAGAGAAGGTGCAGG
TGACAGAGGCGAAGGCAGATGGGGCACTGACCCAGGAGGAGAAAGCAGCCATTGGCACTGTGGAGCTCAGTGTGT
TCTGGGATTATGCCAAGGCCGTGGGGCTCTGTACCACGCTGGCCATCTGTCTCCTGTATGTGGGTCAAAGTGCGG
CTGCCATTGGAGCCAATGTGTGGCTCAGTGCCTGGACAAATGATGCCATGGCAGACAGTAGACAGAACAACACTT
CCCTGAGGCTGGGCGTCTATGCTGCTTTAGGAATTCTGCAAGGGTTCTTGGTGATGCTGGCAGCCATGGCCATGG
CAGCGGGTGGCATCCAGGCTGCCCGTGTGTTGCACCAGGCACTGCTGCACAACAAGATACGCTCGCCACAGTCCT
TCTTTGACACCACACCATCAGGCCGCATCCTGAACTGCTTCTCCAAGGACATCTATGTCGTTGATGAGGTTCTGG
CCCCTGTCATCCTCATGCTGCTCAATTCCTTCTTCAACGCCATCTCCACTCTTGTGGTCATCATGGCCAGCACGC
CGCTCTTCACTGTGGTCATCCTGCCCCTGGCTGTGCTCTACACCTTAGTGCAGCGCTTCTATGCAGCCACATCAC
GGCAACTGAAGCGGCTGGAATCAGTCAGCCGCTCACCTATCTACTCCCACTTTTCGGAGACAGTGACTGGTGCCA

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FIGURE 4893B

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GTGTCATCCGGGCCTACAACCGCAGCCGGGATTTTGAGATCATCAGTGATACTAAGGTGGATGCCAACCAGAGAA
GCTGCTACCCCTACATCATCTCCAACCGGTCAGAAGCCGCCTCCCTCGCTCCCTGCTCCTCCAGGAATTCCCAGC
AGGCTCTCTGGTGTTCAGGGTCCTTGTCCCTCCTTTCCCCTAAGCAGAAAACTGGCCCTGCCCTGCCCCTGCCCC
ATTTCCTCCTCATCTGATCCCCCATAGGTGGCTGAGCATCGGAGTGGAGTTCGTGGGGAACTGCGTGGTGCTCTT
TGCTGCACTATTTGCCGTCATCGGGAGGAGCAGCCTGAACCCGGGGCTGGTGGGCCTTTCTGTGTCCTACTCCTT
GCAGGTGACATTTGCTCTGAACTGGATGATACGAATGATGTCAGATTTGGAATCTAACATCGTGGCTGTGGAGAG
GGTCAAGGAGTACTCCAAGACAGAGACAGAGGCGCCCTGGGTGGTGGAAGGCAGCCGCCCTCCCGAAGGTTGGCC
CCCACGTGGGGAGGTGGAGTTCCGGAATTATTCTGTGCGCTACCGGCCGGGCCTAGACCTGGTGCTGAGAGACCT
GAGTCTGCATGTGCACGGTGGCGAGAAGGTGGGGATCGTGGGCCGCACTGGGGCTGGCAAGTCTTCCATGACCCT
TTGCCTGTTCCGCATCCTGGAGGCGGCAAAGGGTGAAATCCGCATTGATGGCCTCAATGTGGCAGACATCGGCCT
CCATGACCTGCGCTCTCAGCTGACCATCATCCCGCAGGACCCCATCCTGTTCTCGGGGACCCTGCGCATGAACCT
GGACCCCTTCGGCAGCTACTCAGAGGAGGACATTTGGTGGGCTTTGGAGCTGTCCCACCTGCACACGTTTGTGAG
CTCCCAGCCGGCAGGCCTGGACTTCCAGTGCTCAGAGGGCGGGGAGAATCTCAGCGTGGGCCAGAGGCAGCTCGT
GTGCCTGGCCCGAGCCCTGCTCCGCAAGAGCCGCATCCTGGTTTTAGACGAGGCCACAGCTGCCATCGACCTGGA
GACTGACAACCTCATCCAGGCTACCATCCGCACCCAGTTTGATACCTGCACTGTCCTGACCATCGCACACCGGCT
TAACACTATCATGGACTACACCAGGGTCCTGGTCCTGGACAAAGGAGTAGTAGCTGAATTTGATTCTCCAGCCAA
CCTCATTGCAGCTAGAGGCATCTTCTACGGGATGGCCAGAGATGCTGGACTTGCCTAAAATATATTCCTGAGATT
TCCTCCTGGCCTTTCCTGGTTTTCATCAGGAAGGAAATGACACCAAATATGTCCGCAGAATGGACTTGATAGCAA
ACACTGGGGGCACCTTAAGATTTTGCACCTGTAAAGTGCCTTACAGGGTAACTGTGCTGAATGCTTTAGATGAGG
AAATGATCCCCAAGTGGTGAATGACACGCCTAAGGTCACAGCTAGTTTGAGCCAGTTAGACTAGTCCCCCGGTCT
CCCGATTCCCAACTGAGTGTTATTTGCACACTGCACTGTTTTCAAATAACGATTTTATGAAATGACCTCTGTCCT
CCCTCTGATTTTTCATATTTTCCTAAAGTTTCGTTTCTGTTTTTTAATAAAAAGCTTTTTCCTCCTGGAACAGAA
GACAGCTGCTGGGTCAGGCCACCCCTAGGAACTCAGTCCTGTACTCTGGGGTGCTGCCTGAATCCATTAAAAATG
GGAGTACTGATGAAATAAAACTACATGGTCAACAGTAAAAAAAAAAAAAAAAAAAA
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FIGURE 4894

MDALCGSGELGSKFWDSNLSVHTENPDLTPCFQNSLLAWVPCIYLWVALPCYLLYLRHHCRGYIILSHLSKLKMV
LGVLLWCVSWADLFYSFHGLVHGRAPAPVFFVTPLVVGVTMLLATLLIQYERLQGVQSSGVLIIFWFLCVVCAIV
PFRSKILLAKAEGEISDPFRFTTFYIHFALVLSALILACFREKPPFFSAKNVDPNPYPETSAGFLSRLFFWWFTK
LLNPDPLRGCLPGFTSPQDGHLWLPASPGGEGPLVPKGRGQIPDGGAAAAGGMEEAGKADGTTQGFSSTWEKCLR
RGRGAAGCPAQAPEALLPEGPAGHLRLQLPHQCLLQAYPGPALLHQSTAAQHPDQVYLQPHGPLLVGLPGGWADV
PVLHDAVADLTTLLPLHLCDWGEVSYWDHGCHLQEGSGYHQLSQTCVHCGGNCQPHVSGCPALHGPCPLPQSAVV
STPADHPGDLLPLAEPRSLCPGWSRFHGLADSTQRSCGREDARLPGKANEIEGLAHQADE

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FIGURE 4895A

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CTCCGGCGCCCGCTCTGCCCGCCGCTGGGTCCGACCGCGCTCGCCTTCCTTGCAGCCGCGCCTCGGCCCCATGGA
CGCCCTGTGCGGTTCCGGGGAGCTCGGCTCCAAGTTCTGGGACTCCAACCTGTCTGTGCACACAGAAAAACCCGGA
CCTCACTCCCTGCTTCCAGAACTCCCTGCTGGCCTGGGTGCCCTGCATCTACCTGTGGGTCGCCCTGCCCTGCTA
CTTGCTCTACCTGCGGCACCATTGTCGTGGCTACATCATCCTCTCCCACCTGTCCAAGCTCAAGATGGTCCTGGG
TGTCCTGCTGTGGTGCGTCTCCTGGGCGGACCTTTTTTACTCCTTCCATGGCCTGGTCCATGGCCGGGCCCCTGC
CCCTGTTTTCTTTGTCACCCCCTTGGTGGTGGGGGTCACCATGCTGCTGGCCACCCTGCTGATACAGTATGAGCG
GCTGCAGGGCGTACAGTCTTCGGGGGTCCTCATTATCTTCTGGTTCCTGTGTGTGGTCTGCGCCATCGTCCCATT
CCGCTCCAAGATCCTTTTAGCCAAGGCAGAGGGTGAGATCTCAGACCCCTTCCGCTTCACCACCTTCTACATCCA
CTTTGCCCTGGTACTCTCTACCCTCATCTTGGCCTGCTTCAGGGAGAAACCTCCATTTTTCTCCGCAAAGAATGT
CGACCCTAACCCCTACCCTGAGACCAGCGCTGGCTTTCTCTCCCGCCTGTTTTTCTGGTGGTTCACAAAGATGGC
CATCTATGGCTACCGGCATCCCCTGGAGGAGAAGGACCTCTGGTCCCTAAAGGAAGAGGACAGATCCCAGATGGT
GGTGCAGCAGCTGCTGGAGGCATGGAGGAAGCAGGAAAAGCAGACGGCACGACACAAGGCTTCAGCAGCACCTGG
GAAAAATGCCTCCGGCGAGGACGAGGTGCTGCTGGGTGCCCGGCCCAGGCCCCGGAAGCCCTCCTTCCTGAAGGC
CCTGCTGGCCACCTTCGGCTCCAGCTTCCTCATCAGTGCCTGCTTCAAGCTTATCCAGGACCTGCTCTCCTTCAT
CAATCCACAGCTGCTCAGCATCCTGATCAGGTTTATCTCCAACCCCATGGCCCCCTCCTGGTGGGGCTTCCTGGT
GGCTGGGCTGATGTTCCTGTGCTCCATGATGCAGTCGCTGATCTTACAACACTATTACCACTACATCTTTGTGAC
TGGGGTGAAGTTTCGTACTGGGATCATGGGTGTCATCTACAGGAAGGCTCTGGTTATCACCAACTCAGTCAAACG
TGCGTCCACTGTGGGGGGAAATTGTCAACCTCATGTCAGTGGATGCCCAGCGCTTCATGGACCTTGCCCCCTTCCT
CAATCTGCTGTGGTCAGCACCCCTGCAGATCATCCTGGCGATCTACTTCCTCTGGCAGAACCTAGGTCCCTCTGT
CCTGGCTGGAGTCGCTTTCATGGTCTTGCTGATTCCACTCAACGGAGCTGTGGCCGTGAAGATGCGCGCCTTCCA
GGTAAAGCAAATGAAATTGAAGGACTCGCGCATCAAGCTGATGAGTGAGATCCTGAACGGCATCAAGGTGCTGAA
GCTGTACGCCTGGGAGCCCAGCTTCCTGAAGCAGGTGGAGGGCATCAGGCAGGGTGAGCTCCAGCTGCTGCGCAC
GGCGGCCTACCTCCACACCACAACCACCTTCACCTGGATGTGCAGCCCCTTCCTGGTGACCCTGATCACCCTCTG
GGTGTACGTGTACGTGGACCCAAACAATGTGCTGGACGCCGAGAAGGCCTTTGTGTCTGTGTCCTTGTTAATAT
CTTAAGACTTCCCCTCAACATGCTGCCCCAGTTAATCAGCAACCTGACTCAGGCCAGTGTGTCTCTGAAACGGAT
CCAGCAATTCCTGAGCCAAGAGGAACTTGACCCCCAGAGTGTGGAAAGAAAGACCATCTCCCCAGGCTATGCCAT
CACCATACACAGTGGCACCTTCACCTGGGCCCAGGACCTGCCCCCCACTCTGCACAGCCTAGACATCCAGGTCCC
GAAAGGGGCACTGGTGGCCGTGGTGGGGCCTGTGGGCTGTGGGAAGTCCTCCCTGGTGTCTGCCCTGCTGGGAGA
GATGGAGAAGCTAGAAGGCAAAGTGCACATGAAGGGCTCCGTGGCCTATGTGCCCCAGCAGGCATGGATCCAGAA
CTGCACTCTTCAGGAAAACGTGCTTTTCGGCAAAGCCCTGAACCCCAAGCGCTACCAGCAGACTCTGGAGGCCTG
TGCCTTGCTAGCTGACCTGGAGATGCTGCCTGGTGGGGATCAGACAGAGATTGGAGAGAAGGGCATTAACCTGTC
TGGGGGCCAGCGGCAGCGGGTCAGTCTGGCTCGAGCTGTTTACAGTGATGCCGATATTTTCTTGCTGGATGACCC
ACTGTCCGCGGTGGACTCTCATGTGGCCAAGCACATCTTTGACCACGTCATCGGGCCAGAAGGCGTGCTGGCAGG
CAAGACGCGAGTGCTGGTGACGCACGGCATTAGCTTCCTGCCCCAGACAGACTTCATCATTGTGCTAGCTGATGG
ACAGGTGTCTGAGATGGGCCCGTACCCAGCCCTGCTGCAGCGCAACGGCTCCTTTGCCAACTTTCTCTGCAACTA
TGCCCCCGATGAGGACCAAGGGCACCTGGAGGACAGCTGGACCGCGTTGGAAGGTGCAGAGGATAAGGAGGCACT
GCTGATTGAAGACACACTCAGCAACCACACGGATCTGACAGACAATGATCCAGTCACCTATGTGGTCCAGAAGCA
GTTTATGAGACAGCTGAGTGCCCTGTCCTCAGATGGGGAGGGACAGGGTCGGCCTGTACCCCGGAGGCACCTGGG
TCCATCAGAGAAGGTGCAGGTGACAGAGGCGAAGGCAGATGGGGCACTGACCCAGGAGGAGAAAGCAGCCATTGG
CACTGTGGAGCTCAGTGTGTTCTGGGATTATGCCAAGGCCGTGGGGCTCTGTACCACGCTGGCCATCTGTCTCCT
GTATGTGGGTCAAAGTGCGGCTGCCATTGGAGCCAATGTGTGGCTCAGTGCCTGGACAAATGATGCCATGGCAGA
CAGTAGACAGAACAACACTTCCCTGAGGCTGGGCGTCTATGCTGCTTTAGGAATTCTGCAAGGGTTCTTGGTGAT
GCTGGCAGCCATGGCCATGGCAGCGGGTGGCATCCAGGCTGCCCGTGTGTTGCACCAGGCACTGCTGCACAACAA
GATACGCTCGCCACAGTCCTTCTTTGACACCACACCATCAGGCCGCATCCTGAACTGCTTCTCCAAGGACATCTA
TGTCGTTGATGAGGTTCTGGCCCCTGTCATCCTCATGCTGCTCAATTCCTTCTTCAACGCCATCTCCACTCTTGT
GGTCATCATGGCCAGCACGCCGCTCTTCACTGTGGTCATCCTGCCCCTGGCTGTGCTCTACACCTTAGTGCAGCG
CTTCTATGCAGCCACATCACGGCAACTGAAGCGGCTGGAATCAGTCAGCCGCTCACCTATCTACTCCCACTTTTC
GGAGACAGTGACTGGTGCCAGTGTCATCCGGGCCTACAACCGCAGCCGGGATTTTGAGATCATCAGTGATACTAA
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FIGURE 4895B

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GGTGGATGCCAACCAGAGAAGCTGCTACCCCTACATCATCTCCAACCGGTCAGAAGCCGCCTCCCTCGCTCCCTG
CTCCTCCAGGAATTCCCAGCAGGCTCTCTGGTGTTCAGGGTCCTTGTCCCTCCTTTCCCCTAAGCAGAAAACTGG
CCCTGCCCTGCCCCTGCCCCATTTCCTCCTCATCTGATCCCCCATAGGCGGCTGAGCATCGGAGTGGAGTTCGTG
GGGAACTGCGTGGTGCTCTTTGCTGCACTATTTGCCGTCATCGGGAGGAGCAGCCTGAACCCGGGGCTGGTGGGC
CTTTCTGTGTCCTACTCCTTGCAGGTGACATTTGCTCTGAACTGGATGATACGAATGATGTCAGATTTGGAATCT
AACATCGTGGCTGTGGAGAGGGTCAAGGAGTACTCCAAGACAGAGACAGAGGCGCCCTGGGTGGTGGAAGGCAGC
CGCCCTCCCGAAGGTTGGCCCCCACGTGGGGAGGTGGAGTTCCGGAATTATTCTGTGCGCTACCGGCCGGGCCTA
GACCTGGTGCTGAGAGACCTGAGTCTGCATGTGCACGGTGGCGAGAAGGTGGGGATCGTGGGCCGCACTGGGGCT
GGCAAGTCTTCCATGACCCTTTGCCTGTTCCGCATCCTGGAGGCGGCAAAGGGTGAAATCCGCATTGATGGCCTC
AATGTGGCAGACATCGGCCTCCATGACCTGCGCTCTCAGCTGACCATCATCCCGCAGGACCCCATCCTGTTCTCG
GGGACCCTGCGCATGAACCTGGACCCCTTCGGCAGCTACTCAGAGGAGGACATTTGGTGGGCTTTGGAGCTGTCC
CACCTGCACACGTTTGTGAGCTCCCAGCCGGCAGGCCTGGACTTCCAGTGCTCAGAGGGCGGGGAGAATCTCAGC
GTGGGCCAGAGGCAGCTCGTGTGCCTGGCCCGAGCCCTGCTCCGCAAGAGCCGCATCCTGGTTTTAGACGAGGCC
ACAGCTGCCATCGACCTGGAGACTGACAACCTCATCCAGGCTACCATCCGCACCCAGTTTGATACCTGCACTGTC
CTGACCATCGCACACCGGCTTAACACTATCATGGACTACACCAGGGTCCTGGTCCTGGACAAAGGAGTAGTAGCT
GAATTTGATTCTCCAGCCAACCTCATTGCAGCTAGAGGCATCTTCTACGGGATGGCCAGAGATGCTGGACTTGCC
TAAAATATATTCCTGAGATTTCCTCCTGGCCTTTCCTGGTTTTCATCAGGAAGGAAATGACACCAAATATGTCCG
CAGAATGGACTTGATAGCAAACACTGGGGGCACCTTAAGATTTTGCACCTGTAAAGTGCCTTACAGGGTAACTGT
GCTGAATGCTTTAGATGAGGAAATGATCCCCAAGTGGTGAATGACACGCCTAAGGTCACAGCTAGTTTGAGCCAG
TTAGACTAGTCCCCCGGTCTCCCGATTCCCAACTGAGTGTTATTGCACACTGCACTGTTTTCAAATAACGATTT
TATGAAATGACCTCTGTCCTCCCTCTGATTTTTCATATTTTCCTAAAGTTTCGTTTCTGTTTTTTAATAAAAAGC
TTTTTCCTCCTGGAACAGAAGACAGCTGCTGGGTCAGGCCACCCCTAGGAACTCAGTCCTGTACTCTGGGGTGCT
GCCTGAATCCATTAAAAATGGGAGTACTGATGAAATAAAACTACATGGTCAACAGTAAAAAAAAAAAAAAAAAAA
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5308/6881
FIGURE 4896

MDALCGSGELGSKFWDSNLSVHTENPDLTPCFQNSLLAWVPCIYLWVALPCYLLYLRHHCRGYIILSHLSKLKMV
LGVLLWCVSWADLFYSFHGLVHGRAPAPVFFVTPLVVGVTMLLATLLIQYERLQGVQSSGVLIIFWFLCVVCAIV
PFRSKILLAKAEGEISDPFRFTTFYIHFALVLSTLILACFREKPPFFSAKNVDPNPYPETSAGFLSRLFFWWFTK
MAIYGYRHPLEEKDLWSLKEEDRSQMVVQQLLEAWRKQEKQTARHKASAAPGKNASGEDEVLLGARPRPRKPSFL
KALLATFGSSFLISACFKLIQDLLSFINPQLLSILIRFISNPMAPSWWGFLVAGLMFLCSMMQSLILQHYYHYIF
VTGVKFRTGIMGVIYRKALVITNSVKRASTVGEIVNLMSVDAQRFMDLAPFLNLLWSAPLQIILAIYFLWQNLGP
SVLAGVAFMVLLIPLNGAVAVKMRAFQVKQMKLKDSRIKLMSEILNGIKVLKLYAWEPSFLKQVEGIRQGELQLL
RTAAYLHTTTTFTWMCSPFLVTLITLWVYVYVDPNNVLDAEKAFVSVSLFNILRLPLNMLPQLISNLTQASVSLK
RIQQFLSQEELDPQSVERKTISPGYAITIHSGTFTWAQDLPPTLHSLDIQVPKGALVAVVGPVGCGKSSLVSALL
GEMEKLEGKVHMKGSVAYVPQQAWIQNCTLQENVLFGKALNPKRYQQTLEACALLADLEMLPGGDQTEIGEKGIN
LSGGQRQRVSLARAVYSDADIFLLDDPLSAVDSHVAKHIFDHVIGPEGVLAGKTRVLVTHGISFLPQTDFIIVLA
DGQVSEMGPYPALLQRNGSFANFLCNYAPDEDQGHLEDSWTALEGAEDKEALLIEDTLSNHTDLTDNDPVTYVVQ
KQFMRQLSALSSDGEGQGRPVPRRHLGPSEKVQVTEAKADGALTQEEKAAIGTVELSVFWDYAKAVGLCTTLAIC
LLYVGQSAAAIGANVWLSAWTNDAMADSRQNNTSLRLGVYAALGILQGFLVMLAAMAMAAGGIQAARVLHQALLH
NKIRSPQSFFDTTPSGRILNCFSKDIYVVDEVLAPVILMLLNSFFNAISTLVVIMASTPLFTVVILPLAVLYTLV
QRFYAATSRQLKRLESVSRSPIYSHFSETVTGASVIRAYNRSRDFEIISDTKVDANQRSCYPYIISNRSEAASLA
PCSSRNSQQALWCSGSLSLLSPKQKTGPALPLPHFLLI

5309/6881
FIGURE 4897

GTGCTGCCTGGCGCTGGCTAGGAGGCAAACGCACGCGGGAAGAGCTGCTACCCATTCCAGGGACCCTGCCGCTGC
CCCTCTGAGGGGTCTGCACCTCCTGGGAGCAGGTGGGTCTCTGGGACGAGGGTCCATGGTGGATGGCTCTGGAGA
CGCTCCCGAGGCTGTGCCGTCCCGCTGCTGCACAGGTCGGAGGGTCACCGCAGAGGCTACTCGGGCTGGGGCTGG
GGCCGAGGGAGCCCGCACTGGAGCCCCATGTGGAACCCAAGGATGCAGCTGCTCTGCTAACACGGCAGCCCATCC
TTCAAGACTGTGACCTCGCCACAGTGGCCCTCAGCCCTCCACCTCCGGCGGGGGCGAGGGCCACCCACCTCCAAG
TCTCCAGCCATGACGACCTCCGCACTCCGGCGCCAGGTGAAGAACATCGTGCACAACTACTCCGAGGCAGAAATC
AAGGTGCGCGAGGCCACCAGCAATGACCCCTGGGGCCCCCCTAGTTCGCTCATGTCCGAGATCGCTGACCTGACC
TTCAACACAGTGGCCTTCACCGAAGTCATGGGCATGCTGTGGCGGCGGCTCAATGACAGCGGCAAGAACTGGCGG
CACGTGTACAAGGCTCTAACATTGCTGGACTACCTGCTCAAGACGGGCTCCGAGCGGGTGGCCCACCAGTGCCGC
GAGAACCTCTACACCATCCAGACACTCAAGGACTTCCAGTACATCGACCGCGACGGCAAGGACCAGGGCGTCAAC
GTGCGCGAGAAGGTCAAGCAGGTGATGGCCCTGCTCAAGGATGAGGAGCGGCTGCGGCAGGAGCGAACCCACGCC
CTCAAGACCAAGGAGCGCATGGCACTGGAGGGCATCGGCATTGGCAGTGGGCAGCTGGGCTTCAGCCGCCGCTAC
GGCGAGGACTACAGCCGCTCCCGGGGCTCCCGTCCTCCTACAACTCCTCCTCTTCGTCACCCCGCTATACCTCC
GACCTGGAGCAGGCCCGGCCTCAGACGTCAGGGGAAGAGGAACTGCAGCTGCAGCTGGCCCTCGCCATGAGCCGT
GAGGAGGCAGAGAAGCCTGTCCCCCCAGCCTCCCACAGGGACGAGGACCTGCAGCTGCAGCTGGCTCTGCGCCTG
AGCCGGCAGGAGCACGAGAAGGAGGTGAGGTCCTGGCAGGGTGATGGCTCCCCCATGGCCAATGGTGCAGGGGCC
GTGGTCCACCATCAGCGGGACAGAGAGCCTGAGAGAGAAGAGAGAAAGGAGGAGGAGAAGCTAAAAACCAGCCAG
TCCTCCATCCTGGACTTGGCTGACATCTTCGTACCTGCCCTGGCCCCGCCCTCCACACACTGCTCTGCTGACCCA
TGGGACATCCCAGGTTTTAGGCCGAACACAGAGGCCAGTGGATCCTCCTGGGGGCCTTCTGCAGACCCCTGGTCT
CCGATCCCCTCAGGAACCGTCCTGTCCCGAAGCCAGCCCTGGGATCTGACTCCCATGCTCTCCTCCTCTGAGCCC
TGGGGCAGGACCCCAGTGCTGCCTGCTGGGCCCCCCACCACAGACCCCTGGGCCCTGAACTCTCCCCACCACAAA
CTCCCCAGCACTGGGGCTGACCCTTGGGGAGCCTCCCTGGAGACCTCCGACACACCTGGTGGTGCCTCGACCTTT
GACCCATTTGCCAAACCTCCAGAATCCACAGAGACCAAGGAGGGGCTGGAGCAGGCCCTGCCCTCTGGGAAGCCC
AGCAGCCCTGTGGAGCTGGACCTGTTTGGAGACCCCAGCCCCAGTTCCAAGCAAAATGGCACGAAGGAGCCAGAT
GCCCTGGACCTGGGCATACTAGGGGAAGCACTAACCCAGCCAAGCAAAGAGGCCCGAGCTTGCCGGACTCCCGAG
TCCTTCCTGGGTCCCTCAGCTTCCTCCTTGGTCAACCTTGACTCGTTGGTCAAGGCACCCCAGGTTGCAAAGACC
CGGAACCCCTTCCTGACAGGTCTCAGCGCTCCGTCCCCCACCAACCCGTTCGGCGCGGGCGAGCCGGGCAGGCCG
ACGCTAAACCAGATGCGCACCGGCTCGCCGGCGCTGGGCCTGGCAGGCGGGCCTGTGGGGGCGCCCCTGGGCTCC
ATGACCTACAGCGCCTCTCTGCCCCTCCCGCTCAGCAGCGTGCCAGCTGGCTTGACCCTCCCCGCCTCGGTTAGC
GTCTTCCCGCAGGCCGGAGCCTTCGCACCGCAGCCGCTGCTGCCCACGCCGAGCTCAGCCGGGCCGCGGCCCCCG
CCCCCGCAGACCGGCACCAACCCCTTCCTCTGAGCCCCGCCCCGTCCCATACCGGCCTGCGCCTGCGCCGGACGC
TCCGCGGCCCCGCCTCCGGACCCGGGGCTGGGCGGGGCGCCGGTGCTAGTGGAACGCCGAGCCAGTGGCGGCTGG
TATCCCGCGGCGGCTCTGGAAGCTGGACGCGGACCACGGCCCGGGAGCTAGAAACTGAACGCCCGCATAATAAAG
ACTGGAACCCTCGTTCTCAGCTCTCACCAAGTGGACTTTTTGCGGGGTGTGGCGGCCGGGTCTCGACCACAGCGT
GGATCACCGGCTGTTTAGGAAACTGCAGCTGCACAACGTGGGGTGCAAAACTGCCCCGCTTCCTTTACAGCTCTT
CTCAACCCTCACCTCCATCCCCCGTCACCCAGGCACCTTCGCTTCCAGATGCTGCCAGGCTGTCACTCAATTCGG
TCATTTCATTCATTTATCACACATGGGCACTGGGGTTGGGCTAACAGCAAGAGACAATAGGCCTTTGTTCCTATT
TATTGGGTACTGCTTACGTGCTAAGCAGATCAGTTTATTTAATGCTTGCAACGACTCTCTGAGGTAGAAAATATT
GTTAATTCCGTTCAGGATCCCGGCTACATAATCTGTGGGGCTCAATACAAAATAAAAATGTAGGGGCTCCTTGTT
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5310/6881
FIGURE 4898

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GTGATCCCTGCGCGCGTCTCCTGCTCGGGTCAGTGCGCCGCGCTGCGCTGGGCGCCATGGCGCTCCCCGGAGCCC
GGGCTCGCGGCTGGGCGGCAGCAGCCAGAGCGGCCCAGAGGCGCCGCCGCGTGGAGAACGCAGGAGGGTCCCCGA
GTCCTGAGCCTGCGGGCCGGCGCGCGGCGCTTTACGTACACTGGCCTTACTGCGAGAAGCGCTGCAGTTACTGCA
ACTTCAACAAGTACATCCCTCGCCGCCTGGAGGAGGCTGCCATGCAGAAGTGTCTGGTGACCGAAGCTCAGACGC
TGCTGCGGCTCAGCGGGGTGCAACGGGTGGAGTCTGTGTTCTTTGGTGGGGGGACCCCCAGTCTAGCCAGTCCCC
ACACGGTGGCTGCTGTCCTGGAGGCTGTGGCACAGGCAGCCCACCTGCCTGCAGACTTGGAAGTCACATTGGAGG
CTAATCCTACTTCAGCTCCGGGCTCCAGACTGGCAGAGTTCGGGGCAGCAGGGGTTAACAGGTTGTCTATAGGCC
TCCAGTCCCTAGATGACACTGAGCTCCGGCTGTTGGGACGGACGCACTCGGCCTGCGATGCTCTGCGGACGCTGG
CAGAGGCCCGGCGCCTCTTTCCCGGGCGCGTGTCTGTAGACTTGATGCTGGGGCTGCCGGCACAGCAGGTGGGGC
CGTGGCTTGGGCAGCTGCAGGAACTGCTGCACCACTGTGATGACCACCTCTCCCTCTACCAGCTGTCCCTGGAGC
GGGGCACCGCACTCTTCGCCCAGGTGCAGCGGGGTGCCCTTCCAGCCCCTGACCCGGAGCTCGCAGCTGAGATGT
ACCAGAGGGGCCGGGCTGTCCTTCGGGAGGCTGGCTTCCACCAGTATGAGGTCTCCAACTTTGCCCGGAATGGGG
CGCTCAGTACCCACAATTGGACTTACTGGCAGTGTGGTCAGTACCTTGGCGTTGGGCCTGGGGCCCATGGACGAT
TTATGCCCCAGGGGGCTGGAGGCCACACCCGGGAGGCTCGGATCCAGACACTGGAGCCTGACAACTGGATGAAGG
AGGTGATGCTGTTTGGCCATGGCACCCGGAAGCGTGTCCCCCTGGGCAGGCTGGAGCTGCTGGAGGAAGTTTTGG
CCCTGGGGCTACGCACCGATGTGGGGATCACTCACCAGCACTGGCAGCAGTTTGAGCCCCAGCTGACCCTGTGGG
ATGTGTTTGGAGCGAACAAGGAGGTGCAGGAGCTGCTGGAGCGGGGCCTACTGCAGCTGGATCACAGGGGTCTTC
GGTGTTCCTGGGAGGGTCTGGCTGTGCTGGACTCTCTCTTGCTGACCCTCCTGCCTCAGCTCCAAGAAGCCTGGC
AGCAGAGAACCCCCTCCCCTGTGCCAGGAGGATGACAAAAATGTTCCTGTGTTCCAGGGTAATGCCAGGTGGGTT
TTGAGAGCTGGGTCGGTACTGCAGACATCTCTTCTCCGTTGTCGGGTGCCGTCTCTGCTCCTTGTGGTTATTGCT
CAGCCCTGGCATCCCCAGGGGAATGGCAGCAGTGAGGTAGATGGGAGGACATTTCTGGTCAGGGAACTGGCATCC
CATTCAGCATCTCAGGACTCACAGGCCAACATGTGTTCCATGGCTGGGAATTGCCTACCACCCACATCAGCTTCT
GTTTACCTTTTTGGCATCAAATAATGAACAGTGTTTGGAAATCTTTCTACAGGCAATTACCTCCCCAAGAGAAGC
CTTCCTTATTTTGGAGTAAGGTCCTAAGATAGCTGGATGAATCAGGAAAACCATGTCCCCTCTAGGTATTATTAA
TATTAGCAGGAAGGGATCTACTATAGGAATGAAGTATTTATAAACCACTGAAAGGGATAGAGAAGTGAACATTGG
AGAAAGCCAGTAGCAACTGTGAGAAATCAGCAACTTGCAGGAGGCACAGAAAACTCCTGCTGATGGTCTCAGCTT
CCAGCAGCACAAAAGCAGATGATGTACTGGAAAATGCTCAGAAGATGCTACAAAACCTCATGCCTACTGTCTGCC
ACTGCTGGAGAAGGAATCATGGTTTCTAGAAGTGCCTCTCATTAGTGGACTTTAAAGCAAATCCTGGCTGGCAGG
AAATTCTGAGGAATATAGCTCTTAGGCTTCCAGCCTCTACCATGCAGGAGAGAACACAGAAGGACTGATGTATGT
TGGTGGATCCATGTATGTGTCCAGCACAGCGGCCTGCTGGACTCTGAGAACTGGGAAAGATCAGAGCAAGCCTTG
CCTCTTATCTTCGGGAAACCAGAATATGTTTGGGGTGGTAGGAGCCACACAGACTCTTCTGAGCCCCCTCACTCA
CTTCCTTCCCCCTGTGCCTTTCCTTTGAGAGTGAAGGTGGGTGGAGTTGACCAGAGAAAGGGGAGAGAATTCGGG
AAAGACCCAAAGTGTTTGTAATTCTTCTTTGTCCTTTTACCTACAGAAATGGTCACATGGTTCTATTTAAATAGC
CTAATAAACACATCTGGAGCCTGT
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5311/6881
FIGURE 4899

MALPGARARGWAAAARAAQRRRRVENAGGSPSPEPAGRRAALYVHWPYCEKRCSYCNFNKYIPRRLEEAAMQKCL
VTEAQTLLRLSGVQRVESVFFGGGTPSLASPHTVAAVLEAVAQAAHLPADLEVTLEANPTSAPGSRLAEFGAAGV
NRLSIGLQSLDDTELRLLGRTHSACDALRTLAEARRLFPGRVSVDLMLGLPAQQVGPWLGQLQELLHHCDDHLSL
YQLSLERGTALFAQVQRGALPAPDPELAAEMYQRGRAVLREAGFHQYEVSNFARNGALSTHNWTYWQCGQYLGVG
PGAHGRFMPQGAGGHTREARIQTLEPDNWMKEVMLFGHGTRKRVPLGRLELLEEVLALGLRTDVGITHQHWQQFE
PQLTLWDVFGANKEVQELLERGLLQLDHRGLRCSWEGLAVLDSLLLTLLPQLQEAWQQRTPSPVPGG

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FIGURE 4900

AGTGTAAGCAGTGTGCAAACAAGGTGTTACAGCAC**ATG**AAGGCCGTGCAGGCAGATCAGGAGCGGGAGAGGCAGC
GGCGGCTGGAAGTAGAACGTGAGGCAGAGAAGAAGCGTGAGGCTAAGCAGCGAGCTAAGGAAGCTCAGGAGCGGG
AACTGCGGAAGCGGGAGAAGGCGGAAGAGAAGGAGCGCCGGAGAAAGGAGTATGATGCCCTCAAAGCAGCCAAGC
GGGAGCAGGAGAAGAAACCTAAGAAGGAAGCAAATCAGGCCCCGAAATCTAAGTCTGGCTCCCGTCCCCGCAAGC
CACCACCCCGGAAGCACACTCGTTCCTGGGCTGTGCTGAAGCTGCTGCTGCTGCTGCTGCTATTTGGTGTGGCGG
GAGGGCTGGTTGCTTGTCGGGTGACAGAGCTGCAGCAGCAGCCCCTCTGCACCAGCGTGAACACCATCTATGACA
ATGCGGTCCAGGGTCTACGCCGCCATGAGATCCTCCAGTGGGTCCTTCAGACCGACTCTCAGCAG**TGA**GCTTGTT
CCCAGCACCTGCTGCCTCCCAGCCTTGGAGTTTGGATTCCTATGGAATTGGGTTCTGCTGGACACAACCTCTTTT
TAGCATCAGACCTACCTGCCATCATCAAATGGCTGCAGATTGGTACATGAGACCTCCTCTTTGTAGGACTTCTTC
ATTCCTTAGTCAGGGTTCCCTGAAGGAATGAGGAGAAATGGGAGGTGGCGGGGGGGCGTGGGGGGCAGTTACCTG
CATGCCTAAAGGAGTAGGCTTGGGGGTGGGGAGAGAGAAAACATAGCCTTTTCTAGTTGTTATATAAAGCTGTGT
AAAGGCAAGGCTCGTTTCTACTAAATGGTCAGCTGTCACTACATTTATACTTTTGTATGCCACAAACCCTTTCAT
TCCTCCCTGGGAATCAGGGTAGATCAGGAGGAACTGGGGGGGGACTAGAACACCACGCTCAGTAAATCCAGTCTAA
ACTGGGAGGTAGGGGTATTCCTGTTTTCTTTAGGACCTCAGAGATGTAAGCATTTTAGCAGCCACACAAAATCTC
TGGCTATGAAAGGGACTTCATGACCATCCAGTCCAATATAACACTTGCAGACAGAGAAACTGAGGTCTTCCATGA
CTTGCCTAGTCTCCCAGCTAGTTTGAGGCAAAACTGGATTCCCACTCTGGTATTCTTTCTTCCCTTTACATCATT
TTCCCTCCTTTATAATGTCCTGAGAGACCAGAACTCACACCAGAATCGATTATTCCTCAGGTGAAGCATAGACTC
TTTCATGGTAGACAGATTTCACGACTCAGAGATAGAAATCTCTTGCTATCATCAGGTCACGGGCAGCTCCTGTGG
AGTCCTGCCCAACTTATGTGGCTTCCATAAAATGGCAACAGTCCAGGCTCCTTGCCTAATTTTAGAGCATTAACT
CCCTAATTGCCAGTAAGCAAGGAGGTGGATCTCTGCAAACCTACACTGTCTATGACAGCTCTAGTTGTACTTGGT
GTGACTAAATACCTCAAAGGCAACCTGCTTCTGCAGGTTTTGAAGTGTCAGCTTCATAAGACACTGAGGTTTAGA
ATTGTTTGATTCTAGACCATAACTGAAGGGCATAAATGGAAACAGGATATGAAGGGAAACAAGTAGCATCATGGA
GCTGAAAAGTGGTGCATCACCCAATGGCTAGCACAAACAAGGATCACACTGTCCATTCTCTTGTCTGCTAAATTA
AGCATTTTCTTGCCTCCTTTGCTTCATCTTTTCACAACAGCTGGATAGAGGGATCAGAAATGACTGTGTCATGGT
GCTCATTCACTGCAAACTCCCAGTTGCAAGCTCCTTGGCTCCCCCGGAGGGAGCAAGAATCTCATAGTTCAGAGA
CACAGAGGGCCTTTTAGCCCTAATGACCTTTTGGATGGGACTGCAACTCATGACTATCCTGATATTGGAAGAAAG
GACTTTGTTAATCTTCTCCCCCATAGCTCTGCTGCGTAGGTCTACATCTTACTCAGAATCACTACACATTCCTTT
AGTCTTCCTCCAAGCTCCAGAGCCATTGGTACAAATGCTTTATTGAAACTAAATACATAATACACACAATGAGAT
GAAGACAATATAGAAGTCCGCATAGTCATCATAATCCCGTTCCTTGGCCGGTTGAGGCAGCTCAGTGGCTGAGCC
CAGTCAAGCCAACCCGCAGCTTCACTCACGACTTCAAGATTTGATGCTAATTCTTTTGGATTTCTACAGTTATTA
AATAAGTGTCTGAGTGGACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAA

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FIGURE 4901

MKAVQADQERERQRRLEVEREAEKKREAKQRAKEAQERELRKREKAEEKERRRKEYDALKAAKREQEKKPKKEAN
QAPKSKSGSRPRKPPPRKHTRSWAVLKLLLLLLLFGVAGGLVACRVTELQQQPLCTSVNTIYDNAVQGLRRHEIL
QWVLQTDSQQ

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FIGURE 4902A

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AGGTGAACAGGTCCTCACGCCCAGCTCCGCGCCCTCACGCGCTCTCGCCGGGACCCCGCTTCCGCTGGCAGCCAT
GGGCCCCGGCCCCAGCCGCGCGCCCCGCGCCCCACGCCTGATGCTCTGTGCGCTCGCCTTGATGGTGGCGGCCGG
CGGCTGCGTCGTCTCCGCCTTCAACCTGGATACCCGATTCCTGGTAGTGAAGGAGGCCGGGAACCCGGGCAGCCT
CTTCGGCTACTCGGTCGCCCTCCATCGGCAGACAGAGCGGCAGCAGCGCTACCTGCTCCTGGCTGGTGCCCCCCG
GGAGCTCGCTGTGCCCGATGGCTACACCAACCGGACTGGTGCTGTGTACCTGTGCCCACTCACTGCCCACAAGGA
TGACTGTGAGCGGATGAACATCACAGTGAAAAATGACCCTGGCCATCACATTATTGAGGACATGTGGCTTGGAGT
GACTGTGGCCAGCCAGGGCCCTGCAGGCAGAGTTCTGGTCTGTGCCCACCGCTACACCCAGGTGCTGTGGTCAGG
GTCAGAAGACCAGCGGCGCATGGTGGGCAAGTGCTACGTGCGAGGCAATGACCTAGAGCTGGACTCCAGTGATGA
CTGGCAGACCTACCACAACGAGATGTGCAATAGCAACACAGACTACCTGGAGACGGGCATGTGCCAGCTGGGCAC
CAGCGGTGGCTTCACCCAGAACACTGTGTACTTCGGCGCCCCCGGTGCCTACAACTGGAAAGGAAACAGCTACAT
GATTCAGCGCAAGGAGTGGGACTTATCTGAGTATAGTTACAAGGACCCAGAGGACCAAGGAAACCTCTATATTGG
GTACACGATGCAGGTAGGCAGCTTCATCCTGCACCCCAAAAACATCACCATTGTGACAGGTGCCCCACGGCACCG
ACATATGGGCGCGGTGTTCTTGCTGAGCCAGGAGGCAGGCGGAGACCTGCGGAGGAGGCAGGTGCTGGAGGGCTC
GCAGGTGGGCGCCTATTTTGGCAGCGCCATTGCCCTGGCAGACCTGAACAATGATGGGTGGCAGGACCTCCTGGT
GGGCGCCCCCTACTACTTCGAGAGGAAAGAGGAAGTAGGGGGTGCCATCTATGTCTTCATGAACCAGGCGGGAAC
CTCCTTCCCTGCTCACCCCTCACTCCTTCTTCATGGCCCCAGTGGCTCTGCCTTTGGTTTATCTGTGGCCAGCAT
TGGTGACATCAACCAGGATGGATTTCAGGATATTGCTGTGGGAGCTCCGTTTGAAGGCTTGGGCAAAGTGTACAT
CTATCACAGTAGCTCTAAGGGGCTCCTTAGACAGCCCCAGCAGGTAATCCATGGAGAGAAGCTGGGACTGCCTGG
GTTGGCCACCTTCGGCTATTCCCTCAGTGGGCAGATGGATGTGGATGAGAACTTCTACCCAGACCTTCTAGTGGG
AAGCCTGTCAGACCACATTGTGCTGCTGCAGGGCCCGGCCCGTCATCAACATCGTCCACAAGACCTTGGTGCCCA
GGCCAGCTGTGCTGGACCCTGCACTTTGCACGGCCACCTCTTGTGTGCAAGTGGAGCTGTGCTTTGCTTACAACC
AGAGTGCCGGGAACCCCAACTACAGGCGAAACATCACCCTGGCCTACACTCTGGAGGCTGACAGGGACCGCCGGC
CGCCCCGGCTCCGCTTTGCCGGCAGTGAGTCCGCTGTCTTCCACGGCTTCTTCTCCATGCCCGAGATGCGCTGCC
AGAAGCTGGAGCTGCTCCTGATGGACAACCTCCGTGACAAACTCCGCCCCATCATCATCTCCATGAACTACTCTT
TACCTTTGCGGATGCCCGATCGCCCCCGGCTGGGGCTGCGGTCCCTGGACGCCTACCCGATCCTCAACCAGGCAC
AGGCTCTGGAGAACCACACTGAGGTCCAGTTCCAGAAGGAGTGCGGGCCTGACAACAAGTGTGAGAGCAACTTGC
AGATGCGGGCAGCCTTCGTGTCAGAGCAGCAGCAGAAGCTGAGCAGGCTCCAGTACAGCAGAGACGTCCGGAAAT
TGCTCCTGAGCATCAACGTGACGAACACCCGGACCTCGGAGCGCTCCGGGGAGGACGCCCACGAGGCGCTGCTCA
CCCTGGTGGTGCCTCCCGCCCTGCTGCTGTCCTCAGTGCGCCCCCCCGGGGCCTGCCAAGCTAATGAGACCATCT
TTTGCGAGCTGGGGAACCCCTTCAAACGGAACCAGAGGATGGAGCTGCTCATCGCCTTTGAGGTCATCGGGGTGA
CCCTGCACACAAGGGACCTTCAGGTGCAGCTGCAGCTCTCCACGTCGAGTCACCAGGACAACCTGTGGCCCATGA
TCCTCACTCTGCTGGTGGACTATACACTCCAGACCTCGCTTAGCATGGTAAATCACCGGCTACAAAGCTTCTTTG
GGGGGACAGTGATGGGTGAGTCTGGCATGAAAACTGTGGAGGATGTAGGAAGCCCCCTCAAGTATGAATTCCAGG
TGGGCCCAATGGGGGAGGGGCTGGTGGGCCTGGGGACCCTGGTCCTAGGTCTGGAGTGGCCCTACGAAGTCAGCA
ATGGCAAGTGGCTGCTGTATCCCACGGAGATCACCGTCCATGGCAATGGGTCCTGGCCCTGCCGACCACCTGGAG
ACCTTATCAACCCTCTCAACCTCACTCTTTCTGACCCTGGGGACAGGCCATCATCCCCACAGCGCAGGCGGCGAC
AGCTGGATCCAGGGGGGAGGCCAGGGCCCCCCACCTGTCACTCTGGCTGCTGCCAAAAAAGCCAAGTCTGAGACTG
TGCTGACCTGTGCCACAGGGCGTGCCCACTGTGTGTGGCTAGAGTGCCCCATCCCTGATGCCCCCGTTGTCACCA
ACGTGACTGTGAAGGCACGAGTGTGGAACAGCACCTTCATCGAGGATTACAGAGACTTTGACCGAGTCCGGGTAA
ATGGCTGGGCTACCCTATTCCTCCGAACCAGCATCCCCACCATCAACATGGAGAACAAGACCACGTGGTTCTCTG
TGGACATTGACTCGGAGCTGGTGGAGGAGCTGCCGGCCGAAATCGAGCTGTGGCTGGTGCTGGTGGCCGTGGGTG
CAGGGCTGCTGCTGCTGGGGCTGATCATCCTCCTGCTGTGGAAGTGTGACTTCTTTAAGCGGACCGCTATTATC
AGATCATGCCCAAGTACCACGCAGTGCGGATCCGGGAGGAGGAGCGCTACCCACCTCCAGGGAGCACCCTGCCCA
CCAAGAAGCACTGGGTGACCAGCTGGCAGACTCGGGACCAATACTACTGACGTCCTCCCTGATCCCACCCCCTCC
TCCCCCAGTGTCCCCTTTCTTCCTATTTATCATAAGTTATGCCTCTGACAGTCCACAGGGGCCACCACCTTTGGC
TGGTAGCAGCAGGCTCAGGCACATACACCTCGTCAAGAGCATGCACATGCTGTCTGGCCCTGGGGATCTTCCCAC
AGGAGGGCCAGCGCTGTGGACCTTACAACGCCGAGTGCACTGCATTCCTGTGCCCTAGATGCACGTGGGGCCCAC
TGCTCGTGGACTGTGCTGGTGCATCACGGATGGTGCATGGGCTCGCCGTGTCTCAGCCTCTGCCAGCGCCAAAAC
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FIGURE 4902B

AAGCCAAAGAGCCTCCCACCAGAGCCGGGAGGAAAAGGCCCCTGCAATGTGGTGACACCTCCCCCTTTCACACTG
GATCCATCTTGAGCCACAGTCACTGGATTGACTTTGCTGTCAAAACTACTGACAGGGAGCAGCCCCCGGGCCGCT
GGCTGGTGGGCCCCCAATGACACCCATGCCAGAGAGGTGGGGATCCTGCCTAAGGTTGTCTACGGGGGCACTTGG
AGGACCTGGCGTGCTCAGACCCAACAGCAAAGGAACTAGAAAGAAGGACCCAGAACGGCTTGCTTTCCTGCATCT
CTGTGAAGCCTCTCTCCTTGGCCACAGACTGAACTCGCAGGGAATGCAGCAGGAAGGAACAAAGACAGGCAAACG
GCAACGTAGCCTGGGCTCACTGTGCTGGGGCACGGCGGGATCCTCCACAGAGAGGAGGGGACCAATTCTGGACAG
ACAGATGTTGGGAGGATACAGAGGAGATGCCACTTCTCACTCACCACTACCAGCCAGCCTCAGAAGGCCCCAGAG
AGACCCTGCAAGACCACGGAGGGAGCGACACTTGAATGTAGAATAGGCAGGGGGCCCTGCCCCACCCCATCCAGC
CAGACCCCACGCTGACCATGCGTCAGGGGCCTAGAGGTGGAGTTCTTAGCTATCCTTGGCTTTCAGAGCCAGCCT
GGCTCTGCCCCCTCCCCCATGGGCTGTGTCCTAAGGCCCATTTGAGAAGCTGAGGCTAGTTCCAGAAAACCTCTC
CTGACCCCTGCCTGTTGGCAGGCCCACTCCCCAGCCCCAGCCCCTTCCATGGTACTGTAGCAGGGGAATTCCCTC
CCCCTCCTTGTGCCTTCTTTGTATATAGGCTTCTCACGGCGACCAATAAACAGCTCCCAGTTTGT

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FIGURE 4903

GACAATATCAGGTGAGCTGTGGAGGTGGGGTCCTTGGAAGCTGGATGACAGCAGCTGGCAAGGGGATAAGAGAGC
AGTGAGCCCCTCCCTCAAGGAGGTCTGGCTTTATCCATAGACAGGGCCCTCTGAGGTGGGGCTGAGGTACAAAGG
GGGATTGAGCAGCCCAGGAGAAGAGAG**ATG**GGGGTTCCCTTCTTCTCTTCTCTCAGATGCATGGTGGACTTAGGA
CCTTGCTGGGCTGGGGGTCTCACTGCAGAGATGAAGCTGCTTCTGGCCCTAGCAGGGCTCCTGGCCATTCTGGCC
ACGCCCCAGCCCTCTGAAGGTGCTGCTCCAGCTGTCCTGGGGGAGGTGGACACCTCGTTGGTGCTGAGCTCCATG
GAGGAGGCCAAGCAGCTGGTGGACAAGGCCTACAAGGAGCGGCGGGAAAGCATCAAGCAGCGGCTTCGCAGCGGC
TCAGCCAGCCCCATGGAACTCCTATCCTACTTCAAGCAGCCGGTGGCAGCCACCAGGACGGCGGTGAGGGCCGCT
GACTACCTGCACGTGGCTCTAGACCTGCTGGAGAGGAAGCTGCGGTCCCTGTGGCGAAGGCCATTCAATGTCACT
GATGTGCTGACGCCCGCCCAGCTGAATGTGTTGTCCAAGTCAAGCGGCTGCGCCTACCAGGACGTGGGGGTGACT
TGCCCGGAGCAGGACAAATACCGCACCATCACCGGGATGTGCAACAACAGACGCAGCCCCACGCTGGGGGCCTCC
AACCGTGCCTTTGTGCGCTGGCTGCCGGCGGAGTATGAGGACGGCTTCTCTCTTCCCTACGGCTGGACGCCCGGG
GTCAAGCGCAACGGCTTCCCGGTGGCTCTGGCTCGCGCGGTCTCCAACGAGATCGTGCGCTTCCCCACTGATCAG
CTGACTCCGGACCAGGAGCGCTCACTCATGTTCATGCAATGGGGCCAGCTGTTGGACCACGACCTCGACTTCACC
CCTGAGCCGGCCGCCCGGGCCTCCTTCGTCACTGGCGTCAACTGCGAGACCAGCTGCGTTCAGCAGCCGCCCTGC
TTCCCGCTCAAGATCCCGCCCAATGACCCCCGCATCAAGAACCAAGCCGACTGCATCCCGTTCTTCCGCTCCTGC
CCGGCTTGCCCCGGGAGCAACATCACCATCCGCAACCAGATCAACGCGCTCACTTCCTTCGTGGACGCCAGCATG
GTGTACGGCAGCGAGGAGCCCCTGGCCAGGAACCTGCGCAACATGTCCAACCAGCTGGGGCTGCTGGCCGTCAAC
CAGCGCTTCCAAGACAACGGCCGGGCCCTGCTGCCCTTTGACAACCTGCACGATGACCCCTGTCTCCTCACCAAC
CGCTCAGCGCGCATCCCCTGCTTCCTGGCAGGGGACACCCGTTCCAGTGAGATGCCCGAGCTCACCTCCATGCAC
ACCCTCTTACTTCGGGAGCACAACCGGCTGGCCACAGAGCTCAAGAGCCTGAACCCTAGGTGGGATGGGGAGAGG
CTCTACCAGGAAGCCCGGAAGATCGTGGGGGGCCATGGTCCAGATCATCACTTACCGGGACTACCTGCCCCTGGTG
CTGGGGCCAACGGCCATGAGGAAGTACCTGCCCACGTACCGTTCCTACAATGACTCAGTGGACCCACGCATCGCC
AACGTCTTCACCAATGCCTTCCGCTACGGCCACACCCTCATCCAACCCTTCATGTTCCGCCTGGACAATCGGTAC
CAGCCCATGGAACCCAACCCCCGTGTCCCCCTCAGCAGGGTCTTTTTTGCCTCCTGGAGGGTCGTGCTGGAAGGT
GGCATTGACCCCATCCTCCGGGGCCTCATGGCCACCCCTGCCAAGCTGAATCGTCAGAACCAAATTGCAGTGGAT
GAGATCCGGGAGCGATTGTTTGAGCAGGTCATGAGGATTGGGCTGGACCTGCCTGCTCTGAACATGCAGCGCAGC
AGGGACCACGGCCTCCCAGGATACAATGCCTGGAGGCGCTTCTGTGGGCTCCCGCAGCCTGAAACTGTGGGCCAG
CTGGGCACGGTGCTGAGGAACCTGAAATTGGCGAGGAAACTGATGGAGCAGTATGGCACGCCCAACAACATCGAC
ATCTGGATGGGCGGCGTGTCCGAGCCTCTGAAGCGCAAAGGCCGCGTGGGCCCACTCCTCGCCTGCATCATCGGT
ACCCAGTTCAGGAAGCTCCGGGATGGTGATCGGTTTTGGTGGGAGAACGAGGGTGTGTTCAGCATGCAGCAGCGA
CAGGCCCTGGCCCAGATCTCATTGCCCCGGATCATCTGCGACAACACAGGCATCACCACCGTGTCTAAGAACAAC
ATCTTCATGTCCAACTCATATCCCCGGGACTTTGTCAACTGCAGTACACTTCCTGCATTGAACCTGGCTTCCTGG
AGGGAAGCCTCC**TAG**AGGCCAGGTAAGGGGGTGCAGCAGTGAGGGGTATATCTGGGCTGGCCAGTTGGAACCACG
GAGATCTCCTTGCCCTAGATGAGCCCAGCCCTGTTCTGGGTGCAGCTGAGAAAATGAGTGACTAGACGTTCATTT
GTGTGCTCATGTATGTGCGAAGTATATAAATTGGCTTTTCATGCGTGTGTGTTGTCTGAACATGGGGAGTGTTTC
ATGGGTTATGTGTATGTGCCATTTATGTGAGTGTGTGTTTGTGCTGATGAGAATACTGAGTATGTGGAAGGCAGC
AGAGCGGACTGGTGAGGAGCACAGCTCAGGAACTAGACTGCCTGGGTTCCAATCCTGGCTCTGTGGCTTGCTAGC
TATGTGACCTTGAGCAAATTACCCTCCTTAAACAAGAGTTTTCTTCCTTGTAAATTACATCTGTCATGGTTTCTT
GGAGGGCCCACTTGTATCCTCTGGTTCTTCATTTATTGAGCACCTACTACATGCAAGGCACTGTACTAGGCGTGA
GAAGCATATAGAGGCAAGAAAGAGATACCAAGATGCCATCTGTGTCCTGGTTAGCAGAGCTGGACCAGTGGTGCC
TTGGAGGGATAAGCCAGCTGCAGCTGGGCTGTGTGGTTGACTTATGGGCCCAGCCAGCCAGGCTCAGGCCATGGC
TCCCCTTTTTCTTCCTCACCCTGATTTCTTGCTTATTCACTGAAGTTCTCCTGAAGAGGAACTGGGCCTGTTGCC
CTTTCTGTACCATTTATTTGCTCCCAATGTTTATGATAATAAAGGCACCGCTGATGGGGACCTCC

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FIGURE 4904

MGVPFFSSLRCMVDLGPCWAGGLTAEMKLLLALAGLLAILATPQPSEGAAPAVLGEVDTSLVLSSMEEAKQLVDK
AYKERRESIKQRLRSGSASPMELLSYFKQPVAATRTAVRAADYLHVALDLLERKLRSLWRRPFNVTDVLTPAQLN
VLSKSSGCAYQDVGVTCPEQDKYRTITGMCNNRRSPTLGASNRAFVRWLPAEYEDGFSLPYGWTPGVKRNGFPVA
LARAVSNEIVRFPTDQLTPDQERSLMFMQWGQLLDHDLDFTPEPAARASFVTGVNCETSCVQQPPCFPLKIPPND
PRIKNQADCIPFFRSCPACPGSNITIRNQINALTSFVDASMVYGSEEPLARNLRNMSNQLGLLAVNQRFQDNGRA
LLPFDNLHDDPCLLTNRSARIPCFLAGDTRSSEMPELTSMHTLLLREHNRLATELKSLNPRWDGERLYQEARKIV
GAMVQIITYRDYLPLVLGPTAMRKYLPTYRSYNDSVDPRIANVFTNAFRYGHTLIQPFMFRLDNRYQPMEPNPRV
PLSRVFFASWRVVLEGGIDPILRGLMATPAKLNRQNQIAVDEIRERLFEQVMRIGLDLPALNMQRSRDHGLPGYN
AWRRFCGLPQPETVGQLGTVLRNLKLARKLMEQYGTPNNIDIWMGGVSEPLKRKGRVGPLLACIIGTQFRKLRDG
DRFWWENEGVFSMQQRQALAQISLPRIICDNTGITTVSKNNIFMSNSYPRDFVNCSTLPALNLASWREAS

5318/6881
FIGURE 4905

TTCTTCCGCTCCTGCCCGGCTTGCCCCGGGAGCAACATCACCATCCGCAACCAGATCAACGCGCTCACTTCCTTC
GTGGACGCCAGCATGGTGTACGGCAGCGAGGAGCCCCTGGCCAGGAACCTGCGCAACATGTCCAACCAGCTGGGG
CTGCTGGCCGTCAACCAGCGCTTCCAAGACAACGGCCGGGCCCTGCTGCCCTTTGACAACCTGCACGATGACCCC
TGTCTCCTCACCAACCGCTCAGCGCGCATCCCCTGCTTCCTGGCAGGTCAGCTTTGGGGTGGGGACCAGAGGTGG
CATAGGAGATGTTCCCTGTTGGAGCCACAGGGACACCCGTTCCAGTGAGATGCCCGAGCTCACCTCCATGCACAC
CCTCTTACTTCGGGAGCACAACCGGCTGGCCACAGAGCTCAAGAGCCTGAACCCTAGGTGGGATGGGGAGAGGCT
CTACCAGGAAGCCCGGAAGATCGTGGGGGCCATGGTCCAGGTAGGCCGTCTTGAACACCGGGCACACGGGATCCA
GATGTGTCCCTGCAACATCCTAGCTGTGTGACCTTGGGCAAGTTCCTAACGCTCCTGAGCCTTGCCTTCTTCATC
CATGAGGCTGTAAGGATTATAATACATATATGAAAACACCTTTCAGATAGTAAGTGCTTGACAAAGCCTCCTTCC
CTTCCCTCTCCTTCTTCGCAGGTTTGCTCCCTGCAGTCTTCTTTCCTGTGGGTCTGTTATTGGTGTTGGGAGGGT
TGAATGTTTGGTTTAGCGCCCAAGTAGCTGTTCAGTAAATTCTTCTTCCCTCCATCTCACTGTCACTCTTAGCTC
CTTTACCCACTCACCTCTTCTTTTTAAAATTAAAAAAATTATAGGGCTGGGCGCGGTGGCTCATGCCTGTAATCC
CAGCACTTTGGGAGGCGGAGGCGGGTGGATCACGAGGTCAGGAGATCAAGACCATGCTGGCTAACACGGTGAAAC
CCCATCTCTACTAAAAATACAAAAATTAGCCGGGCGTGGTGGCGGGCACCTGTAGTCCCAGCTACTTGGGAGGCT
GAGGCAGGAGAATGGCGTGAACCTGGCTGGAGTGCAGTGGTGCGATCTTGGCTCACTGCAACCTCCACCTTTCAG
GCTCAAGCCATTCTCCC

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FIGURE 4906

AGCCAGTTTGAAGTAGATCTGTACCAAAATGAAACAGCCTGTCAGAGTCCTTTGGATTATCAGTACCGTCAGGAG
ATCCTGAAGCTGGAGAATTCGGGTGGCAAGAAAAACCGACGAATCTTTACCTACACTGACTCTGATAGATACACC
AATTTGGAGGAGCACTGTCAGAGA**ATG**ACCACTGCAGCCAGCGAGGTGCCTTCATTCTTGGTCGAGCGAATGGCA
AATGTCAGGCGTCGCCGGCAGGACAGGCGAGGGATGGAGGGCGGCATCCTCAAGTCACGCATCGTCACCTGGGAG
CCCTCAGAAGAGTTTGTCAGGAACAACCACGTCATTAACACCCCTCTTCAGACAATGCACATCATGGCAGACCTG
GGGCCCTATAAAAAGCTTGGCTATAAGAAGTATGAACATGTCCTGTGTACTCTGAAGGTGGATAGCAATGGTGTG
ATCACAGTAAAGCCTGACTTCACGGGCCTCAAAGGACCCTACAGGATTGAGACGGAGGGGGAGAAGCAGGAGCTG
TGGAAATATACGATCGACAATGTTTCCCCCCACGCACAGCCGGAGGAGGAGGAGCGGGAACGGCGAGTGTTCAAG
GATCTTTATGGCCGGCACAAGGAGTATCTCAGCAGCCTCGTAGGCACCGACTTTGAGATGACTGTCCCAGGTGCC
CTCCGGCTCTTTGTAAATGGAGAGGTCGTTTCAGCCCAAGGCTATGAGTATGACAATCTCTACGTCCACTTCTTT
GTAGAATTGCCAACTGCTCACTGGTCAAGCCCAGCATTCCAGCAGCTCTCAGGAGTAACACAGACCTGCACCACC
AAGTCCCTGGCAATGGACAAGGTGGCTCACTTCTCCTACCCATTCACGTTTGAAGCCTTCTTCCTCCATGAGGAT
GAATCTTCTGATGCACTCCCGGAGTGGCCTGTGCTCTACTGTGAGGTCCTCTCGCTGGACTTCTGGCAGAGGTAC
CGTGTGGAAGGCTATGGGGCTGTGGTGCTGCCTGCCACTCCAGGCTCACACACCCTGACAGTCTCCACGTGGAGA
CCTGTGGAGCTTGGCACGGTGGCTGAGCTGAGGAGGTTTTTCATTGGCGGTTCTCTGGAACTGGAGGACCTCTCC
TATGTACGGATACCAGGATCCTTCAAGGGGGAACGCCTGAGCCGCTTTGGACTCCGCACAGAGACCACAGGCACT
GTCACCTTCCGCTTGCACTGTCTGCAGCAGTCCAGGGCCTTCATGGAATCGAGCTCCCTTCAGAAAAGGATGCGG
AGTGTGTTGGACCGTCTGGAAGGGTTCAGCCAGCAGAGTTCCATTCACAATGTGCTAGAGGCCTTCCGTCGAGCC
CGGCGCCGCATGCAGGAGGCCCGGGAAAGCCTCCCGCAGGACCTAGTGAGCCCCTCTGGAACCCTGGTCTCC**TAG**

CTCACAGCAGCCCTGGCCCACAGTGCAAGAGGACAAGATGGGGGATATCTGAGGCCAGTGCTCTCCTGCCTCTTC
GTCTTTCTGATTAGAGACCACGTTGGTCTGCTGAGAACCAGAAAAGCTGGGAAATTCCCGGCTGGCCCCTCTGCC
TAGCCTTCTGCAGGGTCTTCTCCCTACCCTGTGGAAATAAAGCCAGAGACCCTGTGGCCCCCCCTTTATATTTGC
AGCCACTGTCAGATGGGCATCACAGCAAGGCAGGCTTTTTGATCTGAAGCTGTTTGGGGTGACCCCATAGTGAGT
CTGGCCTTGACTCACTTTTCTGGCTTGTACTCACAGTAGCAGGGGATCTGCTGTTCTCCACCCTTTAAAAATGGA
GCCTTTCATCTTCCAAGACCAAAGAAGGAAGGAAGGTGGACGGTGAGAGGGTCTTAAATCCCCAGCCTGTGAGTC
TCAGCCTCTTTCCAGGGAAGCCTCATTCTACTGCTTGGGGCTTGCTGAGGTTGAGATATGAGTTATTTCTGAGTA
AGTGAAGGCTGAAGGCAGTGCTGAGTCCTTTCTGCTAGCTGGGTGGTATCTTTTACTGTGTTTTTTTGTTTGTTT
GTTTTTTTGTTTTTTGTTACATAAACCCCTTTTATTTTGGAAAAAAAAAAAAAAAA

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FIGURE 4907

MTTAASEVPSFLVERMANVRRRRQDRRGMEGGILKSRIVTWEPSEEFVRNNHVINTPLQTMHIMADLGPYKKLGY
KKYEHVLCTLKVDSNGVITVKPDFTGLKGPYRIETEGEKQELWKYTIDNVSPHAQPEEEERERRVFKDLYGRHKE
YLSSLVGTDFEMTVPGALRLFVNGEVVSAQGYEYDNLYVHFFVELPTAHWSSPAFQQLSGVTQTCTTKSLAMDKV
AHFSYPFTFEAFFLHEDESSDALPEWPVLYCEVLSLDFWQRYRVEGYGAVVLPATPGSHTLTVSTWRPVELGTVA
ELRRFFIGGSLELEDLSYVRIPGSFKGERLSRFGLRTETTGTVTFRLHCLQQSRAFMESSSLQKRMRSVLDRLEG
FSQQSSIHNVLEAFRRARRRMQEARESLPQDLVSPSGTLVS

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FIGURE 4908

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GGCCTGTTCTCGAGTCCGCGCTTTTCGTCACCGCCATGTCGGGAGGTGGTGTGATTCGTGGCCCCGCAGGGAACA
ACGATTGCCGCATCTACGTGGGTAACTTACCTCCAGACATCCGAACCAAGGACATTGAGGACGTGTTCTACAAAT
ACGGCGCTATCCGCGACATCGACCTCAAGAATCGCCGCGGGGGACCGCCCTTCGCCTTCGTTGAGTTCGAGGACC
CGCGAGACGCGGAAGACGCGGTGTATGGTCGCGACGGCTATGATTACGATGGGTACCGTCTGCGGGTGGAGTTTC
CTCGAAGCGGCCGTGGAACAGGCCGAGGCGGCGGCGGGGGTGGAGGTGGCGGAGCTCCCCGAGGTCGCTATGGCC
CCCCATCCAGGCGGTCTGAAAACAGAGTGGTTGTCTCTGGACTGCCTCCAAGTGGAAGTTGGCAGGATTTAAAGG
ATCACATGCGTGAAGCAGGTGATGTATGTTATGCTGATGTTACCGAGATGGCACTGGTGTCGTGGAGTTTGTAC
GGAAAGAAGATATGACCTATGCAGTTCGAAAACTGGATAACACTAAGTTTAGATCTCATGAGGGAGAAACTGCCT
ACATCCGGGTTAAAGTTGATGGGCCCAGAAGTCCAAGTTATGGAAGATCTCGATCTCGAAGCCGTAGTCGTAGCA
GAAGCCGTAGCAGAAGCAACAGCAGGAGTCGCAGTTACTCCCCAAGGAGAAGCAGAGGATCACCACGCTATTCTC
CCCGTCATAGCAGATCTCGCTCTCGTACATAAGATGATTGGTGACACTTTTTGTAGAACCCATGTTGTATACAGT
TTTCCTTTATTCAGTACAATCTTTTCATTTTTTAATTCAAACTGTTTTGTTCAGAATGGGCTAAAGTGTTGAATT
GCATTCTTGTAATATCCCCTTGCTCCTAACATCTACATTCCCTTCGTGTCTTTGATAAATTGTATTTTAAGTGAT
GTCATAGACAGGATTGTTTAAAATTTAGTTAACTCCATACTCTTCAGACTGTGATATTGTGTAAATGTCTATCTGC
CCTGGTTTGTGTGAACTGGGATGTTGGGGGTGTTTGTGGTTATCTTACCTGGGGAAGTTCTTATGTTTATCTTGC
TTTTCATGTGTCTTTCTGTAGACATATCTGAAGAGATGGATTAAGAATGCTTTGGATTAAGGATTGTGGAGCACA
TTTCAATCATTTTAGGATTGTCAAAAGGAGGATTGAGGAGGATCAGATCAATAATGGAGGCAATGGTATGACTCC
AAGTGCTATTGTCACAGATGAAATTGGCAGTATTGACCTTATACTAAAAGGCAGGGGTTAAAAATGATTATATAC
ATTTTCCTTAAAACACTTGCAAACATTTTATTCAGTTGTCTTTAGCTACAATTGCTTTGCTTTTTAAACCTTGGC
AATTGTGGCAAAATTATATTGCCCATTTTGTAGCAACTTATTTTGCTCCCTTCCCCCCATTTTTGTTTTAATAGG
GACTAATGTGGGAAGAACTGGCTAATTTGTCACAGTGCTTAGTTACAACTGTTAATGTGTGACCTGCTGTTGGTG
TACATGTGGGTACAGGGTGTTTTTAAATCCAACAAGATAGAGTATAATATCAATACTGCTAAATCTGCATGTCCT
CTGTGTGACTGATAGAGCGTTGCTATTTCATTTTTTTAAGACAAAATGAAAGCAAAATATAGAGTTCCAATGTAT
TGGTGTAGATAATCTAGTTGGGAATACTTTTAAGTCTCACCTTCCCCTTTAAACTAATATTCATAATTGGTTCAT
ATGTTTAAAAGACTTTAATTTACAAATTAAATTGCAAATGGGAGCATTAGATTTAGTTTTAGACTTAGGTGGGTA
GCAATGCCAGTAAACTTAAATTACGTAACTTCTTGCAACCACGAAACCTGTAATACGCTGTACAGTAACAAGTGT
TGGCATTATCAGTTGAACTGTAAATACAAAATGCTTCTTCCAATTAGTCTCTATGATGATTAAGTTTCTAAAATT
TATCTGAACACCATTCAGAAACTTGTTTTGGGGAATTTGATAGTTATTGATGTGCATCTGTTAAACTGATGACAG
ACATAACTCATCATTCCCCAGAAACCTTTTTTGATTACAGTATCTAACATTTTGCCTCCTCTTTTTTGGTTTTGC
TGGTTATAAAGGTTTGGATTGGAGAGGGCTCACTGGATCCCAATCCTTGGAGCTGGATCATTGGATTCAAATCAT
AATGTGGATAGGATAGGGAGGATGAATTACCAGGATTCATGGAGCGGGATCAGATTACCAGGAACATAGGAGTGG
ATTCCTGCCCCAACCAAACCGCATTCGTGTGGATTTTTTATTCAACTTAATTGGCTATTCCAAAGATTTTTTTT
TTCCTATTTTTGACGATTGGAGCCCTTAAGATGCACGATGGAATTGTGTTTTGCGTTTTTTGGTAAAAGGAGCAA
AGCGAGGACCTGGAGATAAACGCTGGAGCAATCTCCTTGGAAGGATTCAGCACGAGTAGATGGTAAACATTTAAA
GGGGAAAGGGGGGGTTTGTTTAAAATAGTAAATCAGTAAGTCACTTCTAAATTTAAAGAAAACAAAATTGGAGTT
GAAGAATAAGTAGGTTTCCAATTGGCTATTGCCGTTTTCTTTGAAAAAATAAACATTTTTTAAAAAACAAAAAAA
AAAAAAAA
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FIGURE 4909

MSGGGVIRGPAGNNDCRIYVGNLPPDIRTKDIEDVFYKYGAIRDIDLKNRRGGPPFAFVEFEDPRDAEDAVYGRD
GYDYDGYRLRVEFPRSGRGTGRGGGGGGGGGAPRGRYGPPSRRSENRVVVSGLPPSGSWQDLKDHMREAGDVCYA
DVYRDGTGVVEFVRKEDMTYAVRKLDNTKFRSHEGETAYIRVKVDGPRSPSYGRSRSRSRSRSRSRSRSNSRSRS
YSPRRSRGSPRYSPRHSRSRSRT

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FIGURE 4910

ATGGGTAAGATCCGGAAGGCCCAAGGAGAAGGGCTGCCCCGCCCACTGCCCCTGCTGGTCCAGCCCAACCTCCCC
TTTGGGTACCCAGTCCACGGAGTGGAGGTGATGCCCCTGCACACGGTTCCCATCCCAGGCCTCCAGTTTGAAGGA
CCCGATGCCCCCGTCTATGAGGTCACCCTGACAGCTTCTCTGGGGACACTGAACACCCTTGCTGATGTCCCAGAC
AGTGTGGTGCAGGGCAGAGGCCAGAAGCAGCTGATCATTTCTACCAGTGACCGGAAGCTGTTGAAGTTCATTCTT
CAGCACGTGACATACACCAGCACGGGGTACCAGCACCAGAAGTACTATCCCCACATTGCCATTGACCCCATAGAG
CCACTCGAGGAGAGAACAAATCATGCTGTGCGCTTTGCACCTGTGAGTCTGGAGTCCAGGTCCTCAGTGGCCAAG
TTTCCAGTGACCATCCGCCATCCTGTCATACCCAAGCTATACGACCCTGGACCAGTGTTCTTTCAGTGTAGTCTT
AATCAGACTATTCAACTCCTCATCACCCCAGACACTGGTAGTATCTGGCACCAGGTGGGGTGGAAGACAACCCGT
GAGTATTACACCTTCATGTGGGTTACTTTGCCCATTGACCTAAACAACAAATCAGCTAAACAGCAGGAAGTCCAA
TTCAAAGCTTACTACCTGCCCAAGGATGATGAGTATTACCAGTTCTGCTATGTGGATGAGGATGGTGTGGTCCGG
GGAGCAAGTATTCCTTTCCAATTCCGTCCAGAAAATGAGGAAGACATCCTGGTTGTTACCACTCAGGGAGAGGTG
GAAGAGATTGAGCAGCACAACAAGGAGCTTTGCAAAGAAAACCAGGAGCTGAAGGACAGCTGTATCAGCCTCCAG
AAGCAGAACTCAGACATGCAGGCTGAGCTCCAAAAGAAGCAGTATCTTTGA

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FIGURE 4911

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GGTTGCTGTCCCTGGACCCCTACCATGGAGGAGACCATCAAAGATCCCCCCACATCAGCTGTCTTGCTGGATCAC
TGTCATTTCTCTCAGGTCATCTTTAACAGTGTGGAGAAGTTCTACATCCCTGGAGGGGACGTCACATGTCATTAT
ACCTTCACCCAGCATTTCATCCCTCGTCGAAAGGATTGGATTGGCATCTTTAGAGTGGGGTGGAAGACAACCCGT
GAGTATTACACCTTCATGTGGGTTACTTTGCCCATTGACCTAAACAACAAATCAGCTAAACAGCAGGAAGTCCAA
TTCAAAGCTTACTACCTGCCCAAGGATGATGAGTATTACCAGTTCTGCTATGTGGATGAGGATGGTGTGGTCCGG
GGAGCAAGTATTCCTTTCCAATTCCGTCCAGAAAATGAGGAAGACATCCTGGTTGTTACCACTCAGGGAGAGGTG
GAAGAGATTGAGCAGCACAACAAGGAGCTTTGCAAAGAAAACCAGGAGCTGAAGGACAGCTGTATCAGCCTCCAG
AAGCAGAACTCAGACATGCAGGCTGAGCTCCAAAAGAAGCAGGAGGAGCTAGAAACCCTACAGAGCATCAATAAG
AAGTTGGAACTGAAAGTGAAAGAACAGAAGGACTATTGGGAGACAGAGCTGCTTCAACTGAAAGAACAAAACCAG
AAGATGTCCTCAGAAAATGAGAAGATGGGAATCAGAGTGGATCAGCTTCAGGCCCAGCTGTCAACTCAAGAGAAA
GAAATGGAGAAGCTTGTTCAGGGAGATCAAGATAAGACAGAGCAGTTAGAGCAGCTGAAAAAGGAAAATGACCAC
CTCTTTCTCAGTTTAACTGAACAGAGGAAGGACCAGAAGAAGCTCGAGCAGACAGTGGAGCAAATGAAGCAGAAT
GAAACTACTGCAATGAAGAAACAACAGGAATTAATGGATGAAAACTTTGACCTGTCAAAAAGACTGAGTGAGAAC
GAAATTATATGTAATGCTCTGCAGAGACAGAAAGAGAGATTGGAAGGAGAAAATGATCTTTTGAAGAGGGAGAAC
AGCAGATTGCTCAGTTACATGGGTCTGGATTTTAATTCTTTGCCGTATCAAGTACCTACTTCAGATGAAGGAGGC
GCAAGACAAATCCAGGACTTGCCTATGGAAACCCATATTCTGGTATCCAAGAAAGTTCTTCCCCCAGCCCGCTC
TCCATCAAGAAATGCCCTATCTGCAAAGCAGATGATATTTGTGATCACACCTTGGAGCAACAGCAGATGCAGCCC
CTTTGTTTCAATTGTCCAATTTGTGACAAGATCTTCCCAGCTACAGAGAAGCAGATCTTTGAAGACCACGTGTTC
TGCCACTCTCTCTGAGTATCCCAACCTCTTGGATGTATACAGAGATTTTATAGAATAGAACCTATAGCTTCTACC
ATGAGTTATATGAGTCAAGATCCTGCCTAACCTGAATTATTAGGGATTTACTCAGCCCTGCTGCCGCTAACAGT
GGAGTTATGTCACTGATCTGAAGGTCACTGTTAAGGGCTTCTGCTGCCATCCTTGTGGGTTGCTACCTTTAAGTC
GCATAACTCTAGCTGTATCATCCTCTCACCTGTCATTCTTCTGAGGGTCTCAGTACAAGGGCCCTGGGATGGAGC
CAACCTGGGTATTCACAACAGGCCTGACTTGATACTAAGTGATTAGTTTTCCAAGTTGTCCCACTGCCATTCAAA
GTCAGCCCTTGAGTGTATTTGTTCTCAGTCCTAACCCTGGGGCCAGAGATTGGTCCGAGGTTGAGAATTCCTTCC
TCCTCATCCTTGGTGTTGCTTTCTCCAAATGATTGTTTAGACTAGCCAAAAATGCCGTGGCAAAGAGCTCAGAA
ATCCAATTTGGATACCAAAGGTTTCTCATGTTAATTTCTCAGCCCCCAAAGAAGCATCTTACTCCTGAACCTTAG
ACAGGAAGTATTGTTTCAGTCACAGAAAGCTTTTCTGGGTACCTCTGGTTAGCACTTTCTACTCTCTGATATTTC
CTATGTACATAGCTTTTATTGTTGTAAATCCTTTCTTAATGGTTAAATAGGATTGTTAGCAACTATGGGTTTGCA
GTTTTCTGAGTAGGTGAGTTTTGAATATGGGTAAATCAGAATAATGAGACAACTTGTTAATCTCTTTAATACTAA
AAATAAATTACTCTTCTATTTCAGGGACTTAGGTAATTTAAAATAAACCTTCAATTTATGGTCTTCTGTTTTGAA
GCTCATGGGAAAATTGTGATCAAAAGGGCTATGGGAAGGGCAGACCCCGCCAATGATTTCTCTTCACCTGTCTTA
AGATTAAATAAAAAAGAGTGTCCTGGCAGTTATCTTGAGGTGGGGAAGGAGGTGATGAAACATTAGTTTGTGAAA
TCCAAGGCCCTGGCTTGCTTTCTTTCTTTTTTTTTTTTTTTTTTTTGAAACAGTCTCTCTCTGTCACCCAGGCTG
GCGTGCAATGGCGCAGTTGACTCACTACAGCCTCTGCCTCCCAGGTTCAAGCGATTCTCATGCCTTAGCCTCCCA
AGTAGCTGGGATTACAGGTGTGTGCCGCAATGCCCAGCTAATTTTTGTGTTTTTAGTAGAGACAGGGTTTCACTA
TGTTGGCCAGGCTGGTCTCGAACTCCTGGCCTCACGTGATCTGTCCACTTCAGCCGTCCAAAGTGCTGGGATTAC
AAGCGTGAGCCACTGTGCTGGGCCCGAGGCCCTGACTTCTTGCTGTAACTTTCCATGCATTTTTTTAAAAGGAG
CAGTGTGGATTTTCGCACCCTTTGTGAACTAAGTTCAATGCGCTCTATCCAAATTTGCCTAATTGAACTATAAGA
AAGTAATAATTCCATTTTCTATCCCCTCAGGGACTGAACAAATGGAAATAACTCCCAGGCAGTATCAGGTGGTCA
CTACAGAGACTTCCACAAAAACTTTTGAATGATGTGAAACACGATGTCATGAATAAGGGTTGAGCCAACTATAGC
TCTGTGTTCCTACTGGGCTTTCCCTAATGTGGTTGGGAGTTATGCCCTAGACTAACTGTATTGTCCTAGTCACAG
CTCCTTGCTTTGATTTCATCCTTGATAAAATGAAGATGAAACTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAA
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FIGURE 4912

MEETIKDPPTSAVLLDHCHFSQVIFNSVEKFYIPGGDVTCHYTFTQHFIPRRKDWIGIFRVGWKTTREYYTFMWV
TLPIDLNNKSAKQQEVQFKAYYLPKDDEYYQFCYVDEDGVVRGASIPFQFRPENEEDILVVTTQGEVEEIEQHNK
ELCKENQELKDSCISLQKQNSDMQAELQKKQEELETLQSINKKLELKVKEQKDYWETELLQLKEQNQKMSSENEK
MGIRVDQLQAQLSTQEKEMEKLVQGDQDKTEQLEQLKKENDHLFLSLTEQRKDQKKLEQTVEQMKQNETTAMKKQ
QELMDENFDLSKRLSENEIICNALQRQKERLEGENDLLKRENSRLLSYMGLDFNSLPYQVPTSDEGGARQNPGLA
YGNPYSGIQESSSPSPLSIKKCPICKADDICDHTLEQQQMQPLCFNCPICDKIFPATEKQIFEDHVFCHSL

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FIGURE 4913

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AAAAAAATGCTTCTGTGCTCTAAGATATATATGTGTGTGTGTGTGCTACATATATATTTTTAAGAAAGGACCATC
TCTTTAGGATATATTTTTAAATTCTTTGAAACACATAACCAAAATGGTTTGATTCACTGACTGACTTTGAAGCTG
CATCTGCCAGTTACACCCCAAATGGCTTTAATCCCCTCTCGGGTCTGGTTGCCTTTTGCAGTTTGGGTTGTGGAC
TCAGCTCCTGTGAGGGGTCTGGTTAGGAGAGAGCCATTTTTAAGGACAGGGAGTTTTATAGCCCTTTTCTACTTT
CCTCCCCTCCTCCCAGTCCTTATCAATCTTTTTTCCTTTTTCCTGACCCCCTCCTTCTGGAGGCAGTTGGGAGCT
ATCCTTGTTTATGCCTCACTATTGGCAGAAAAGACCCCATTTAAAACCCAGAGAACACTGGAGGGGGATGCTCTA
GTTGGTTCTGTGTCCATTTTCCTCTGTGCCAAAGACAGACAGACAGAGGCTGAGAGAGGCTGTTCCTGAATCAAA
GCAATAGCCAGCTTTCGACACATACCTGGCTGTCTGAGGAGGAAGGCCTCCTGGAAACTGGGAGCTAAGGGCGAG
GCCCTTCCCTTCAGAGGCTCCTGGGGGATTAGGGTGTGGTGTTTGCCAAGCCAAGGGGTAGGGAGCCGAGAAATT
GGTCTGTCGGCTCCTGGTTGCACTTTGGGGAAGGAGAGGAAGTTTGGGGCTCCAGGTAGCTCCCTGTTGTGGGAC
TGCTCTGTCCCCTGCCCCTACTGCAGAGATAGCACTGCCGAGTTCCCTTCAGGCCTGGCAGACGGGCAGTGAGGA
GGGGCCTCAGTTAGCTCTCAAGGGTGCCTTCCCCTCCTCCCAACCCAGACATACCCTCTGCCAAACTGGGAACCA
GCAGTGCTAGTAACTACCTCACAGAGCCCCAGAGGGCCTGCTTGAGCCTTCTTGCTCCACAGGAGAAGCTGGTGC
CTCTAGGCAACCCCTTCCTCCCACCTCTCATCAGGGGTGGGGGTTCTCCTTTCTTTCCCCTGAAGTGTTTATGGG
GAGATCCTAGTGGCTTTGCCATTCAAACCACTCGACTGTTTGCCTGTTTCTTGAAAACCAGTAGAAGGGAAACAG
CACAGCCTGTCACAGTAATTGCAGGAAGATTGAAGAAAAATCCTCATCAATGCCAGGGGACATAAAAGCCATTTC
CCTTCCAAATACTCGACAATTTAGATGCAGAACATTTCTCTGTATTCAGACTTAGAGTAACACCAGCTGAAAACT
GCAGTTTCTTTCCTTTGGATACATAAGGCTTCTCTATCGGGGTACGGGACAGGGAGGAGGCCTCATGTCTGAAGG
GGGATTTAGGGGCGAGAGCCCCAGCCCTGACCCTCGGTCCTGTGCACCGCTTTGGGGCACAGTCTGATGGCGCCT
TTGCTGGCGCCTTAGTATGGTTGACTCCGGATGGACAAAAGAAAAAAAATTTTTTTTCTTGAATGAAATAGCAGG
AAGCTCCTCGGGAGCATGTGTTTTGATTAACCGCAGGTGATGGATGCTACGAGTATAAATGGATTAACTACCTCA
ATCCTTACAGTAAGATTGGAACTAAGGGCAGGGACTCATGCATAAGGGTATGAATCCCAGCCAGGACAAGTGAGT
TGAGGCTTGTGCCACAAAAGGTTTGTCCTTGGGGAACAGGCAGGCCTGCCAGGATCCCCCCCATATCGATTGGGC
TGGGAGGGCTGGCCATGAGGTCCCCACTTTCTGCTTTCCTTGCCCATGTGTCACCCCTTTGGCCTCCAGCTTGTC
CCTCTCTCACTTTCTATAGCTTTGTTGGACCAGATGGTGAGGAAAGGAATGGCCTCTTCCCTTCTAGAGGGGGCT
GGCTGGAGTGAGACCTGGGGCTTGGCCTGGAACCCACCACACAGCCCCAAAGTCAGGAAGCCTGGGGAAACCAGA
GCTGAGACCTCTTCAACAGGGTTTCTTTGAGATCCTACACCTCCATTGGGCCCTTTTTCAGTCTTCAATGGGGGC
CCAGTTGGCTCTAGAAGGAGAAGAGGTGAAGCAGGATCCTTTGCCCTGGGGGAGTCTGAGGGCGCGGTCCTTGGA
CTCATTCAGGCCGTCTTTGTAGTTGGGGGAGTTCCACTGGGCGATCCCAGCCCCTCCCCACCCACCCTCTAATGG
ACCTCCTCATAGAAGCCCCATTTCACTTTTGTTTTATCTACCTCTTAGCAAAACAATAGATAAATTAGGTAGTGG
CAGCTCCACTTGCTTAGGTTAGGGGGGGAAAAAGATTTCTTTTTCCAAAGGAAAAAAATATTACCTTGAGAATAC
TTTCCAAAAAATAAAATTAAAAAAAAAAAA
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FIGURE 4914

MALIPSRVWLPFAVWVVDSAPVRGLVRREPFLRTGSFIALFYFPPLLPVLINLFSFFLTPSFWRQLGAILVYASL
LAEKTPFKTQRTLEGDALVGSVSIFLCAKDRQTEAERGCS

5328/6881
FIGURE 4915

GGGACGTGGAGACCCGGGGTCCCGGCAGCCGGGCGGCCCGCGGGCCCAGGGTGGGGATGCACCGCCGCGGGGTGG
GAGCTGGCGCCATCGCCAAGAAGAAACTTGCAGAGGCCAAGTATAAGGAGCGAGGGACGGTCTTGGCTGAGGACC
AGCTAGCCCAGATGTCAAAGCAGTTGGACATGTTCAAGACCAACCTGGAGGAATTTGCCAGCAAACACAAGCAGG
AGATCCGGAAGAATCCTGAGTTCCGTGTGCAGTTCCAGGACATGTGTGCAACCATTGGCGTGGATCCGCTGGCCT
CTGGAAAAGGATTTTGGTCTGAGATGCTGGGCGTGGGGGACTTCTATTACGAACTAGGTGTCCAAATTATCGAAG
TGTGCCTGGCGCTGAAGCATCGGAATGGAGGTCTGATAACTTTGGAGGAACTACATCAACAGGTGTTGAAGGGAA
GGGGCAAGTTCGCCCAGGATGTCAGTCAAGATGACCTGATCAGAGCCATCAAGAAACTAAAGGCACTTGGCACTG
GCTTCGGCATCATCCCTGTGGGCGGCACTTACCTCATTCAGTCTGTTCCAGCTGAGCTCAATATGGATCACACCG
TGGTGCTGCAGCTGGCAGAGAAGAATGGCTACGTGACTGTCAGTGAGATCAAAGCCAGTCTTAAATGGGAGACCG
AGCGAGCGCGGCAAGTGCTGGAACACCTGCTGAAGGAAGGGTTGGCGTGGCTGGACTTACAGGCCCCAGGGGAGG
CCCACTACTGGCTGCCAGCTCTCTTCACTGACCTCTACTCCCAGGAGATTACAGCTGAGGAGGCCAGAGAAGCCC
TCCCCTGACTGCATGTGGAAGGGCACACAGCAGCAGGCAGGGAGGAGGCGGAGGTGGCAAATAAACCTGGGCAAT
TTTGTTTATACAAAAAATAGAAAAAAA

5329/6881
FIGURE 4916A

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AGCAGACGGGAGTTTCTCCTCGGGGTCGGAGCAGGAGGCACGCGGAGTGTGAGGCCACGCATGAGCGGACGCTAA
CCCCCTCCCCAGCCACAAAGAGTCTACATGTCTAGGGTCTAGACATGTTCAGCTTTGTGGACCTCCGGCTCCTGC
TCCTCTTAGCGGCCACCGCCCTCCTGACGCACGGCCAAGAGGAAGGCCAAGTCGAGGGCCAAGACGAAGACATCC
CACCAATCACCTGCGTACAGAACGGCCTCAGGTACCATGACCGAGACGTGTGGAAACCCGAGCCCTGCCGGATCT
GCGTCTGCGACAACGGCAAGGTGTTGTGCGATGACGTGATCTGTGACGAGACCAAGAACTGCCCCGGCGCCGAAG
TCCCCGAGGGCGAGTGCTGTCCCGTCTGCCCCGACGGCTCAGAGTCACCCACCGACCAAGAAACCACCGGCGTCG
AGGGACCCAAGGGAGACACTGGCCCCCGAGGCCCAAGGGGACCCGCAGGCCCCCTGGCCGAGATGGCATCCCTG
GACAGCCTGGACTTCCCGGACCCCCGGACCCCCGGACCTCCCGGACCCCCTGGCCTCGGAGGAAACTTTGCTC
CCCAGCTGTCTTATGGCTATGATGAGAAATCAACCGGAGGAATTTCCGTGCCTGGCCCCATGGGTCCCTCTGGTC
CTCGTGGTCTCCCTGGCCCCCCTGGTGCACCTGGTCCCCAAGGCTTCCAAGGTCCCCCTGGTGAGCCTGGCGAGC
CTGGAGCTTCAGGTCCCATGGGTCCCCGAGGTCCCCCAGGTCCCCCTGGAAAGAATGGAGATGATGGGGAAGCTG
GAAAACCTGGTCGTCCTGGTGAGCGTGGGCCTCCTGGGCCTCAGGGTGCTCGAGGATTGCCCGGAACAGCTGGCC
TCCCTGGAATGAAGGGACACAGAGGTTTCAGTGGTTTGGATGGTGCCAAGGGAGATGCTGGTCCTGCTGGTCCTA
AGGGTGAGCCTGGCAGCCCTGGTGAAAATGGAGCTCCTGGTCAGATGGGCCCCCGTGGCCTGCCTGGTGAGAGAG
GTCGCCCTGGAGCCCCTGGCCCTGCTGGTGCTCGTGGAAATGATGGTGCTACTGGTGCTGCCGGGCCCCCTGGTC
CCACCGGCCCCGCTGGTCCTCCTGGCTTCCCTGGTGCTGTTGGTGCTAAGGGTGAAGCTGGTCCCCAAGGGCCCC
GAGGCTCTGAAGGTCCCCAGGGTGTGCGTGGTGAGCCTGGCCCCCCTGGCCCTGCTGGTGCTGCTGGCCCTGCTG
GAAACCCTGGTGCTGATGGACAGCCTGGTGCTAAAGGTGCCAATGGTGCTCCTGGTATTGCTGGTGCTCCTGGCT
TCCCTGGTGCCCGAGGCCCCTCTGGACCCCAGGGCCCCGGCGGCCCTCCTGGTCCCAAGGGTAACAGCGGTGAAC
CTGGTGCTCCTGGCAGCAAAGGAGACACTGGTGCTAAGGGAGAGCCTGGCCCTGTTGGTGTTCAAGGACCCCCTG
GCCCTGCTGGAGAGGAAGGAAAGCGAGGAGCTCGAGGTGAACCCGGACCCACTGGCCTGCCCGGACCCCCTGGCG
AGCGTGGTGGACCTGGTAGCCGTGGTTTCCCTGGCGCAGATGGTGTTGCTGGTCCCAAGGGTCCCGCTGGTGAAC
GTGGTTCTCCTGGCCCTGCTGGCCCCAAAGGATCTCCTGGTGAAGCTGGTCGTCCCGGTGAAGCTGGTCTGCCTG
GTGCCAAGGGTCTGACTGGAAGCCCTGGCAGCCCTGGTCCTGATGGCAAAACTGGCCCCCCTGGTCCCGCCGGTC
AAGATGGTCGCCCCGGACCCCCAGGCCCACCTGGTGCCCGTGGTCAGGCTGGTGTGATGGGATTCCCTGGACCTA
AAGGTGCTGCTGGAGAGCCCGGCAAGGCTGGAGAGCGAGGTGTTCCCGGACCCCCTGGCGCTGTCGGTCCTGCTG
GCAAAGATGGAGAGGCTGGAGCTCAGGGACCCCCTGGCCCTGCTGGTCCCGCTGGCGAGAGAGGTGAACAAGGCC
CTGCTGGCTCCCCCGGATTCCAGGGTCTCCCTGGTCCTGCTGGTCCTCCAGGTGAAGCAGGCAAACCTGGTGAAC
AGGGTGTTCCTGGAGACCTTGGCGCCCCTGGCCCCTCTGGAGCAAGAGGCGAGAGAGGTTTCCCTGGCGAGCGTG
GTGTGCAAGGTCCCCCTGGTCCTGCTGGTCCCCGAGGGGCCAACGGTGCTCCCGGCAACGATGGTGCTAAGGGTG
ATGCTGGTGCCCCTGGAGCTCCCGGTAGCCAGGGCGCCCCTGGCCTTCAGGGAATGCCTGGTGAACGTGGTGCAG
CTGGTCTTCCAGGGCCTAAGGGTGACAGAGGTGATGCTGGTCCCAAAGGTGCTGATGGCTCTCCTGGCAAAGATG
GCGTCCGTGGTCTGACTGGCCCCATTGGTCCTCCTGGCCCTGCTGGTGCCCCTGGTGACAAGGGTGAAAGTGGTC
CCAGCGGCCCTGCTGGTCCCACTGGAGCTCGTGGTGCCCCCGGAGACCGTGGTGAGCCTGGTCCCCCCGGCCCTG
CTGGCTTTGCTGGCCCCCCTGGTGCTGACGGCCAACCTGGTGCTAAAGGCGAACCTGGTGATGCTGGTGCTAAAG
GCGATGCTGGTCCCCCTGGCCCTGCCGGACCCGCTGGACCCCCTGGCCCCATTGGTAATGTTGGTGCTCCTGGAG
CCAAAGGTGCTCGCGGCAGCGCTGGTCCCCCTGGTGCTACTGGTTTCCCTGGTGCTGCTGGCCGAGTCGGTCCTC
CTGGCCCCTCTGGAAATGCTGGACCCCCTGGCCCTCCTGGTCCTGCTGGCAAAGAAGGCGGCAAAGGTCCCCGTG
GTGAGACTGGCCCTGCTGGACGTCCTGGTGAAGTTGGTCCCCCTGGTCCCCCTGGCCCTGCTGGCGAGAAAGGAT
CCCCTGGTGCTGATGGTCCTGCTGGTGCTCCTGGTACTCCCGGGCCTCAAGGTATTGCTGGACAGCGTGGTGTGG
TCGGCCTGCCTGGTCAGAGAGGAGAGAGAGGCTTCCCTGGTCTTCCTGGCCCCTCTGGTGAACCTGGCAAACAAG
GTCCCTCTGGAGCAAGTGGTGAACGTGGTCCCCCTGGTCCCATGGGCCCCCCTGGATTGGCTGGACCCCCTGGTG
AATCTGGACGTGAGGGGGCTCCTGGTGCCGAAGGTTCCCCTGGACGAGACGGTTCTCCTGGCGCCAAGGGTGACC
GTGGTGAGACCGGCCCCGCTGGACCCCCTGGTGCTCCTGGTGCTCCTGGTGCCCCTGGCCCCGTTGGCCCTGCTG
GCAAGAGTGGTGATCGTGGTGAGACTGGTCCTGCTGGTCCCACCGGTCCTGTCGGCCCTGTTGGCGCCCCGTGGCC
CCGCCGGACCCCAAGGCCCCGTGGTGACAAGGGTGAGACAGGCGAACAGGGCGACAGAGGCATAAAGGGTCACC
GTGGCTTCTCTGGCCTCCAGGGTCCCCCTGGCCCTCCTGGCTCTCCTGGTGAACAAGGTCCCTCTGGAGCCTCTG
GTCCTGCTGGTCCCCGAGGTCCCCCTGGCTCTGCTGGTGCTCCTGGCAAAGATGGACTCAACGGTCTCCCTGGCC
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FIGURE 4916B

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CCATTGGGCCCCCTGGTCCTCGCGGTCGCACTGGTGATGCTGGTCCTGTTGGTCCCCCCGGCCCTCCTGGACCTC
CTGGTCCCCCTGGTCCTCCCAGCGCTGGTTTCGACTTCAGCTTCCTGCCCCAGCCACCTCAAGAGAAGGCTCACG
ATGGTGGCCGCTACTACCGGGCTGATGATGCCAATGTGGTTCGTGACCGTGACCTCGAGGTGGACACCACCCTCA
AGAGCCTGAGCCAGCAGATCGAGAACATCCGGAGCCCAGAGGGCAGCCGCAAGAACCCCGCCCGCACCTGCCGTG
ACCTCAAGATGTGCCACTCTGACTGGAAGAGTGGAGAGTACTGGATTGACCCCAACCAAGGCTGCAACCTGGATG
CCATCAAAGTCTTCTGCAACATGGAGACTGGTGAGACCTGCGTGTACCCCACTCAGCCCAGTGTGGCCCAGAAGA
ACTGGTACATCAGCAAGAACCCCAAGGACAAGAGGCATGTCTGGTTCGGCGAGAGCATGACCGATGGATTCCAGT
TCGAGTATGGCGGCCAGGGCTCCGACCCTGCCGATGTGGCCATCCAGCTGACCTTCCTGCGCCTGATGTCCACCG
AGGCCTCCCAGAACATCACCTACCACTGCAAGAACAGCGTGGCCTACATGGACCAGCAGACTGGCAACCTCAAGA
AGGCCCTGCTCCTCCAGGGCTCCAACGAGATCGAGATCCGCGCCGAGGGCAACAGCCGCTTCACCTACAGCGTCA
CTGTCGATGGCTGCACGAGTCACACCGGAGCCTGGGGCAAGACAGTGATTGAATACAAAACCACCAAGACCTCCC
GCCTGCCCATCATCGATGTGGCCCCCTTGGACGTTGGTGCCCCAGACCAGGAATTCGGCTTCGACGTTGGCCCTG
TCTGCTTCCTGTAAACTCCCTCCATCCCAACCTGGCTCCCTCCCACCCAACCAACTTTCCCCCCAACCCGGAAAC
AGACAAGCAACCCAAACTGAACCCCCTCAAAAGCCAAAAAATGGGAGACAATTTCACATGGACTTTGGAAAATAT
TTTTTTCCTTTGCATTCATCTCTCAAACTTAGTTTTTATCTTTGACCAACCGAACATGACCAAAAACCAAAAGTG
CATTCAACCTTACCAAAAAAAAAAAAAAAAAAAAAGAATAAATAAATAACTTTTTAAAAAAGGAAGCTTGGTCCACT
TGCTTGAAGACCCATGCGGGGGTAAGTCCCTTTCTGCCCGTTGGGCTTATGAAACCCCAATGCTGCCCTTTCTGC
TCCTTTCTCCACACCCCCCTTGGGGCCTCCCCTCCACTCCTTCCCAAATCTGTCTCCCCAGAAGACACAGGAAAC
AATGTATTGTCTGCCCAGCAATCAAAGGCAATGCTCAAACACCCAAGTGGCCCCCACCCTCAGCCCGCTCCTGCC
CGCCCAGCACCCCCAGGCCCTGGGGGACCTGGGGTTCTCAGACTGCCAAAGAAGCCTTGCCATCTGGCGCTCCCA
TGGCTCTTGCAACATCTCCCCTTCGTTTTTGAGGGGGTCATGCCGGGGGAGCCACCAGCCCCTCACTGGGTTCGG
AGGAGAGTCAGGAAGGGCCACGACAAAGCAGAAACATCGGATTTGGGGAACGCGTGTCAATCCCTTGTGCCGCAG
GGCTGGGCGGGAGAGACTGTTCTGTTCCTTGTGTAACTGTGTTGCTGAAAGACTACCTCGTTCTTGTCTTGATGT
GTCACCGGGGCAACTGCCTGGGGGCGGGGATGGGGGCAGGGTGGAAGCGGCTCCCCATTTTATACCAAAGGTGCT
ACATCTATGTGATGGGTGGGGTGGGGAGGGAATCACTGGTGCTATAGAAATTGAGATGCCCCCCCCAGGCCAGCAA
ATGTTCCTTTTTGTTCAAAGTCTATTTTTATTCCTTGATATTTTTCTTTTTTTTTTTTTTTTTTGTGGATGGGG
ACTTGTGAATTTTTCTAAAGGTGCTATTTAACATGGGAGGAGAGCGTGTGCGGCTCCAGCCCAGCCCGCTGCTCA
CTTTCCACCCTCTCTCCACCTGCCTCTGGCTTCTCAGGCCTCTGCTCTCCGACCTCTCTCCTCTGAAACCCTCCT
CCACAGCTGCAGCCCATCCTCCCGGCTCCCTCCTAGTCTGTCCTGCGTCCTCTGTCCCCGGGTTTCAGAGACAAC
TTCCCAAAGCACAAAGCAGTTTTTCCCCCTAGGGGTGGGAGGAAGCAAAAGACTCTGTACCTATTTTGTATGTGT
ATAATAATTTGAGATGTTTTTAATTATTTTGATTGCTGGAATAAAGCATGTGGAAATGACCCAAACATAA
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FIGURE 4917

CCTGTTGCTGATGCTGCCGTGCGGTACTTGTC**ATG**GAGCTGGCACTGCGGCGCTCTCCCGTCCCGCGGTGGTTGC
TGCTGCTGCCGCTGCTGCTGGGCCTGAACGCAGGAGCTGTCATTGACTGGCCCACAGAGGAGGGCAAGGAAGTAT
GGGATTATGTGACGGTCCGCAAGGATGCCTACATGTTCTGGTGGCTCTATTATGCCACCAACTCCTGCAAGAACT
TCTCAGAACTGCCCCTGGTCATGTGGCTTCAGGGCGGTCCAGGCGGTTCTAGCACTGGATTTGGAAACTTTGAGG
AAATTGGGCCCCTTGACAGTGATCTCAAACCACGGAAAACCACCTGGCTCCAGGCTGCCAGTCTCCTATTTGTGG
ATAATCCCGTGGGCACTGGGTTCAGTTATGTGAATGGTAGTGGTGCCTATGCCAAGGACCTGGCTATGGTGGCTT
CAGACATGATGGTTCTCCTGAAGACCTTCTTCAGTTGCCACAAAGAATTCCAGACAGTTCCATTCTACATTTTCT
CAGAGTCCTATGGAGGAAAAATGGCAGCTGGCATTGGTCTAGAGCTTTATAAGGCCATTCAGCGAGGGACCATCA
AGTGCAACTTTGCGGGGGTTGCCTTGGGTGATTCCTGGATCTCCCCGTGGATTCGGTGCTCTCCTGGGGACCTT
ACCTGTACAGCATGTCTCTTCTCGAAGACAAAGGTCTGGCAGAGGTGTCTAAGGTTGCAGAGCAAGTACTGAATG
CCGTAAATA**AGG**GGCTCTACAGAGAGGCCACAGAGCTGTGGGGGAAAGCAGAAATGATCATTGAACAGAACACAG
ATGGGGTGAACTTCTATAACATCTTAACTAAAAGCACTCCCACGTCTACAATGGAGTCGAGTCTAGAATTCACAC
AGAGCCACCTAGTTTGTCTTTGTCAGCGCCACGTGAGACACCTACAACGAGATGCCTTAAGCCAGCTCATGAATG
GCCCCATCAGAAAGAAGCTCAAAATTATTCCTGAGGATCAATCCTGGGGAGGCCAGGCTACCAACGTCTTTGTGA
ACATGGAGGAGGACTTCATGAAGCCAGTCATTAGCATTGTGGACGAGTTGCTGGAGGCAGGGATCAACGTGACGG
TGTATAATGGACAGCTGGATCTCATCGTAGATACCATGGGTCAGGAGGCCTGGGTGCGGAAACTGAAGTGGCCAG
AACTGCCTAAATTCAGTCAGCTGAAGTGGAAGGCCCTGTACAGTGACCCTAAATCTTTGGAAACATCTGCTTTTG
TCAAGTCCTACAAGAACCTTGCTTTCTACTGGATTCTGAAAGCTGGTCATATGGTTCCTTCTGACCAAGGGGACA
TGGCTCTGAAGATGATGAGACTGGTGACTCAGCAAGAA**TAG**GATGGATGGGCTGGAGATGAGCTGGTTTGGCCT
TGGGGCACAGAGCTGAGCTGAGGCCGCTGAAGCTGTAGGAAGCGCCATTCTTCCCTGTATCTAACTGGGGCTGTG
ATCAAGAAGGTTCTGACCAGCTTCTGCAGAGGATAAAATCATTGTCTCTGGAGGCAATTTGGAAATTATTTCTGC
TTCTTAAAAAAACCTAAGATTTTTTAAAAAAATTGATTTGTTTGATCAAAATAAAGGATGATAATAGATATTATT
TTTTCTTATGACAGAAGCAAATGATGTGATTTATAGAAAAACTGGGAAATACAGGTACCCAAAGAGTAAATCAAC
ATCTGTATACCCCCTTCCCAGGGGTAAGCACTGTTACCAATTTAGCATATGTCCTTGCAGAATTTTTTTTTCTAT
ATATACATATATATTTTTTACCAAAATGAATCATTACTCTATGTTGTTTTACTATTTGTTTGACATATCAGTATA
TCTGAAACACCTTTTCATGTCAATAAATGTTCTTCTCTAACATTAA

5332/6881
FIGURE 4918

MELALRRSPVPRWLLLLPLLLGLNAGAVIDWPTEEGKEVWDYVTVRKDAYMFWWLYYATNSCKNFSELPLVMWLQ
GGPGGSSTGFGNFEEIGPLDSDLKPRKTTWLQAASLLFVDNPVGTGFSYVNGSGAYAKDLAMVASDMMVLLKTFF
SCHKEFQTVPFYIFSESYGGKMAAGIGLELYKAIQRGTIKCNFAGVALGDSWISPVDSVLSWGPYLYSMSLLEDK
GLAEVSKVAEQVLNAVNKGLYREATELWGKAEMIIEQNTDGVNFYNILTKSTPTSTMESSLEFTQSHLVCLCQRH
VRHLQRDALSQLMNGPIRKKLKIIPEDQSWGGQATNVFVNMEEDFMKPVISIVDELLEAGINVTVYNGQLDLIVD
TMGQEAWVRKLKWPELPKFSQLKWKALYSDPKSLETSAFVKSYKNLAFYWILKAGHMVPSDQGDMALKMMRLVTQ
QE

5333/6881
FIGURE 4919

CCGGACTGCGGAAGG**ATG**GAGCTGGCCGCCGGAAGCTTCTCGGAGGAGCAGTTCTGGGAGGCCTGCGCCGAGCTC
CAGCAGCCCGCTCTGGCCGGGGCCGACTGGCAGCTCCTAGTGGAGACCTCGGGCATCAGCATCTACCGGCTGCTG
GACAAGAAGACTGGACTTCATGAGTATAAAGTCTTTGGTGTTCTGGAGGACTGCTCACCAACTCTACTGGCAGAC
ATCTATATGGACTCAGATTACAGAAAACAATGGGACCAGTATGTTAAAGAACTCTATGAACAAGAATGCAACGGA
GAGACTGTGGTCTACTGGGAAGTGAAGTACCCTTTTCCCATGTCCAACAGAGACTATGTCTACCTTCGGCAGCGG
CGAGACCTGGACATGGAAGGGAGGAAGATCCATGTGATCCTGGCCCGGAGCACCTCCATGCCTCAGCTTGGCGAG
AGGTCTGGGGTGATCCGGGTGAAGCAATACAAGCAGAGCCTGGCGATTGAGAGTGACGGCAAGAAGGGGAGCAAA
GTTTTCATGTATTACTTCGATAACCCGGGTGGCCAAATTCCGTCCTGGCTCATTAACTGGGCCGCCAAGAATGGA
GTTCCTAACTTCTTGAAAGACATGGCAAGAGCCTGTCAGAACTACCTCAAGAAAACC**TAA**GAAAGAGAACTGGGA
ACATTGCATCCATGGGTTGATGTCTCTGGAAGTGCAACCACCCAATGTCTCTGGAAGTGCCACCTGGAAGTGCCA
CCTGGAAGTGTCTCTGGAAGAGCACCCACCACTGTTCAGCCTTCCCCTGCTGTTTCTGTCTTCAGAGGCCTACAC
ACTACCACATCCTTTCTAAGCATGTTTGCCTGACATCCAGCTCACTCGTCTGCTTCCTTTCTCGCTCCCCCCATC
CTGGGCTGGGCTGCCTTCTTCTACAGTTCAATATGGGGCAGACTAGGGAAACCTTTGCTTGCTTACTATTAGGAG
GGGAAGTCTTCAGTAGGGAACACGATCATTCCATTGTGCAATTTTACGGGGATGGGTGGGCGGAGGGACACAACA
AAATTTAAGAATGACTATTTGGGCGGGCTGGCTCTTTTGCAGCTTGTGATTCTTCCAGCTTGGGAGGGGCTGCT
GGAAGTGGCATTTCGTTCAGAGCTGACTTTCAGTGCACCCAAACTGGATGACGTGCCAATGTCCATTTGCCTTAT
GCTTTGTGGAGCTGATTAGGCTGGGATTTGAGGTGATAATCCAGTAAGTCTTTCCTCGTTCCTACTTGTGGAGGA
TCAGTAGCTGTTATGATGCCAGACCATTTGGAGAAGTATCAGAGGCCTGACCGGACACATAATACGACAACCACA
TTTTTCCTCATCATCCATGAGGAAATGGATGATTTCTCTTTTCCATATGTCACTGGGGGAAAGGCTGCCTGTACC
TCTCAAGCTTTGCATTTTACTGGAAACTGAGGCGTCAAGATGGCTGTGGCAGCTAGCAAAAGCAAAGATGCTTTG
TGCATAGCCTTGTGAAAAAGTATCTTTCTATGCAATAAGATGAATTTTCCTCCCAGAATATTTAGAAATGTAGAA
GGGATAACAGTTCACAGCCAGGTAAAATTTAACTGGTGGCTTAATGACTCTGCACCTTTTTCTCAGGAATTCTGC
CTAAGTTGTCTGCCTTTTCTACCACCAAAAAGACTTTTAGTTTTCTATGCTTTCTCCTGAATTTTGGTAGGGTAA
GTATTTCTATGTCAAAGGCACAGCCTTGATGATCTCAGGGAAAAATTTTAATCACTGTGTATAATGATACTGAAC
CTTGATTAATAACAGAAATTCAGGATGTAAAGCCACAGAATGGGATTATTAATGTGGGATACCTCAGACTGTTT,
GTTTTCTTTCTGGGAAGAAAAGTGTGTTCTATAATGAATAAATATAGAGTGGTTTTT

5334/6881
FIGURE 4920

MELAAGSFSEEQFWEACAELQQPALAGADWQLLVETSGISIYRLLDKKTGLHEYKVFGVLEDCSPTLLADIYMDS
DYRKQWDQYVKELYEQECNGETVVYWEVKYPFPMSNRDYVYLRQRRDLDMEGRKIHVILARSTSMPQLGERSGVI
RVKQYKQSLAIESDGKKGSKVFMYYFDNPGGQIPSWLINWAAKNGVPNFLKDMARACQNYLKKT

5335/6881
FIGURE 4921A

CCGCCCCCGACCCGAGCTCTTTCGTCTGCCTGCCAGTTTCCTGCGTCCCCGGAGAGGATCCTGCTGAGCCCAGCC
TCCCCCCTCCCCTTCTCCTCCTCTCCCTTGGAGAGCCCGGGCAGCCACTGCCCCGCAGCCCCAGTGACAGGAGGA
GACCATAACCCCCGACAGCGCC**ATG**GCCCAGATTCTGCCAATTCGTTTTCAGGAGCATCTCCAGCTCCAGAACCT
GGGTATCAACCCAGCAAACATTGGCTTCAGTACCCTGACTATGGAGTCTGACAAATTCATCTGCATTAGAGAAAA
AGTAGGAGAGCAGGCCCAGGTGGTAATCATTGATATGAATGACCCAAGTAATCCAATTCGAAGACCAATTTCAGC
AGACAGCGCCATCATGAATCCAGCTAGCAAAGTAATTGCACTGAAAGCTGGGAAAACTCTTCAGATTTTTAACAT
TGAAATGAAAAGTAAAATGAAGGCTCATACCATGACTGATGATGTCACCTTTTGGAAATGGATCTCTTTGAATAC
GGTTGCTCTTGTTACGGATAATGCAGTTTATCACTGGAGTATGGAAGGAGAGTCTCAGCCAGTGAAAATGTTTGA
TCGCCATTCTAGCCTTGCAGGGTGCCAGATTATCAATTACCGTACAGATGCAAAACAAAAGTGGTTACTTCTGAC
TGGTATATCTGCACAGCAAATCGTGTGGTGGGAGCTATGCAGCTATATTCTGTAGATAGGAAAGTGTCTCAGCC
CATTGAAGGACATGCAGCTAGCTTTGCACAGTTTAAGATGGAAGGAAATGCAGAAGAATCAACGTTATTTTGTTT
TGCAGTTCGGGGCCAAGCTGGAGGGAAGTTACATATTATTGAAGTTGGCACACCACCTACAGGGAACCAGCCCTT
TCCAAAGAAGGCAGTGGATGTCTTCTTTCCTCCAGAAGCACAAAATGATTTTCCTGTTGCAATGCAGATCAGTGA
AAAGCATGATGTGGTGTTCTTGATAACCAAGTATGGTTATATCCACCTCTATGATCTTGAGACTGGTACCTGCAT
CTACATGAATAGAATCAGTGGAGAAACAATTTTTGTTACTGCACCTCATGAAGCCACAGCTGGAATAATTGGAGT
AAACAGAAAGGGACAAGTTCTGTCAGTGTGTGTGGAAGAAGAAAACATAATTCCTTACATCACCAATGTTCTACA
AAATCCTGATTTGGCTCTGAGAATGGCTGTACGTAATAACTTAGCCGGTGCTGAAGAACTCTTTGCCCGGAAATT
TAATGCTCTTTTTGCCCAGGGAAATTACTCGGAGGCAGCAAAGGTGGCTGCTAATGCACCAAAGGGAATTCTTCG
TACTCCAGACACTATCCGTCGGTTCCAGAGTGTCCCAGCCCAGCCAGGTCAAACTTCTCCTCTACTTCAGTACTT
TGGTATCCTTTTGGACCAGGGACAGCTCAACAAATACGAATCCTTAGAGCTTTGTAGGCCTGTACTTCAGCAAGG
GCGAAAACAGCTTTTGGAGAAATGGTTAAAAGAAGATAAGCTGGAATGTTCTGAAGAACTGGGTGATCTTGTGAA
ATCTGTGGACCCTACATTGGCACTTAGTGTGTACCTAAGGGCTAACGTCCCAAATAAAGTCATTCAGTGCTTTGC
AGAAACAGGTCAAGTCCAAAAGATTGTTTTATATGCTAAAAAAGTTGGATACACTCCAGATTGGATATTTCTGCT
GAGAAATGTAATGCGAATCAGTCCAGATCAGGGACAGCAGTTTGCCCAAATGTTAGTTCAAGATGAAGAGCCTCT
TGCTGACATCACACAGATTGTAGATGTCTTTATGGAATACAATCTAATTCAGCAGTGTACTGCATTCTTGCTTGA
TGCTCTGAAGAATAATCGCCCATCTGAAGGTCCTTTACAGACGCGGTTACTTGAGATGAACCTTATGCATGCGCC
TCAAGTTGCAGATGCTATTCTAGGCAATCAGATGTTCACACATTATGACCGGGCTCATATTGCTCAACTGTGTGA
AAAGGCTGGCCTACTGCAGCGTGCATTAGAACATTTCACTGATTTATATGATATAAAACGTGCAGTGGTTCACAC
CCATCTTCTTAACCCTGAGTGGTTAGTCAACTACTTTGGTTCCTTATCAGTAGAAGACTCCCTAGAATGTCTCAG
AGCCATGCTGTCTGCCAACATCCGTCAGAATCTGCAGATTTGTGTTCAGGTGGCTTCTAAATATCATGAACAACT
GTCAACTCAGTCTCTGATTGAACTTTTTGAATCTTTCAAGAGTTTTGAAGGTCTCTTTTATTTTCTGGGATCCAT
TGTTAACTTTAGCCAGGACCCAGATGTGCACTTTAAATATATTCAGGCAGCTTGCAAGACTGGGCAAATCAAAGA
AGTAGAAAGAATCTGTAGAGAAAGCAACTGCTACGATCCTGAGCGAGTCAAGAATTTTCTTAAGGAAGCAAAACT
AACAGATCAGCTACCACTTATCATTGTGTGTGATCGATTTGACTTTGTCCATGATTTGGTGCTCTATTTATATAG
AAATAATCTTCAAAAGTATATAGAGATATATGTACAGAAGGTGAATCCAAGTCGACTTCCTGTAGTTATTGGAGG
ATTACTTGATGTTGACTGTTCTGAAGATGTCATAAAAAAACTTGATTCTTGTTGTAAGAGGTCAATTCTCTACTGA
TGAGCTTGTTGCTGAGGTTGAAAAAAGAAACAGATTGAAACTGCTTCTGCCTTGGCTAGAGGCCAGAATTCATGA
GGGCTGTGAGGAGCCTGCTACTCACAATGCCTTAGCCAAAATCTACATAGACAGTAATAACAACCCGGAGAGATT
TCTTCGTGAAAATCCCTACTATGACAGTCGCGTTGTTGGAAAGTATTGTGAGAAGAGAGATCCACATCTGGCCTG
TGTTGCTTATGAACGTGGCCAATGTGATCTGGAACTTATTAATGTTTGCAATGAGAATTCCCTCTTCAAAAGTCT
TTCTCGCTACCTGGTACGTCGAAAGGATCCAGAATTGTGGGGCAGCGTGCTGCTGGAAAGCAATCCTTACAGGAG
ACCCCTAATTGACCAGGTTGTACAAACAGCTTTGTCTGAGACTCAGGACCCTGAAGAAGTGTCAGTAACTGTAAA
GGCTTTCATGACTGCAGACCTTCCTAATGAACTCATTGAACTGCTGGAGAAAATTGTCCTTGATAACTCTGTATT
CAGTGAACACAGGAATCTGCAAAACCTCCTTATCCTCACTGCAATTAAGGCTGACCGTACACGTGTTATGGAGTA
TATTAACCGCCTGGATAATTATGATGCCCCAGATATTGCCAATATCGCCATCAGCAATGAGCTGTTTGAAGAAGC
ATTTGCCATTTTCCGGAAATTTGATGTCAATACTTCAGCAGTTCAGGTCTTAATTGAGCATATTGGAAACTTGGA
TCGGGCATATGAGTTTGCTGAACGTTGCAATGAACCTGCGGTCTGGAGTCAACTTGCAAAAGCCCAGTTGCAGAA
AGGAATGGTGAAAGAAGCCATTGATTCTTATATCAAAGCAGATGATCCTTCCTCCTACATGGAAGTTGTTCAGGC

FIGURE 4921B

TGCCAATACTAGTGGAAACTGGGAAGAACTGGTGAAGTACTTGCAGATGGCCCGTAAGAAGGCTCGAGAGTCCTA
TGTGGAGACAGAACTGATATTCGCACTGGCTAAAACAAACCGCCTTGCAGAGTTAGAAGAATTTATCAATGGACC
AAATAATGCTCATATCCAACAAGTTGGTGACCGTTGTTATGATGAAAAAATGTATGATGCTGCTAAGTTGTTGTA
CAATAATGTTTCCAATTTTGGACGTTTGGCATCTACCCTGGTTCACCTGGGTGAATATCAGGCAGCTGTTGATGG
GGCTAGGAAAGCTAACAGTACTCGAACATGGAAAGAGGTCTGCTTCGCCTGTGTAGATGGGAAAGAATTCCGTCT
TGCTCAGATGTGTGGACTTCATATTGTTGTACATGCAGATGAATTAGAAGAACTTATCAACTACTATCAGGATCG
TGGCTATTTTGAAGAGCTGATCACCATGTTGGAAGCAGCACTGGGACTTGAGCGAGCTCACATGGGAATGTTTAC
TGAATTAGCTATTCTATACTCTAAATTTAAGCCTCAGAAAATGAGGGAGCACCTGGAGCTGTTCTGGTCTAGAGT
GAATATTCCCAAGGTGCTAAGAGCTGCAGAACAAGCTCATCTTTGGGCAGAACTGGTGTTTTTGTATGACAAGTA
TGAAGAATATGATAATGCCATAATTACCATGATGAATCATCCAACTGATGCCTGGAAAGAAGGGCAATTCAAAGA
TATCATTACCAAGGTTGCCAATGTGGAACTATACTACAGAGCAATACAGTTCTACTTAGAATTCAAGCCTCTGTT
GTTAAATGATTTGCTGATGGTGCTGTCTCCACGGTTGGATCACACTCGTGCAGTCAATTATTTCAGCAAGGTTAA
ACAGCTACCACTGGTGAAACCGTATTTGCGTTCAGTTCAGAACCATAACAACAAATCTGTGAATGAATCATTGAA
CAATCTTTTTATTACAGAAGAAGATTATCAGGCTCTGCGAACATCAATAGATGCTTATGACAACTTTGACAATAT
CTCGCTTGCTCAGCGTTTGGAAAAACATGAACTCATTGAGTTCAGGAGAATTGCTGCTTATCTCTTCAAAGGCAA
CAATCGCTGGAAACAGAGTGTAGAGCTGTGCAAGAAAGACAGCCTTTACAAGGATGCAATGCAGTATGCTTCTGA
ATCTAAAGATACTGAATTGGCTGAAGAACTCCTGCAGTGGTTTTTGCAGGAAGAAAAAAGAGAGTGCTTTGGAGC
TTGTCTGTTTACCTGTTACGATCTTTTAAGGCCAGATGTCGTCCTAGAAACTGCATGGAGGCACAATATCATGGA
TTTTGCCATGCCCTATTTCATCCAGGTCATGAAGGAGTACTTGACAAAGGTGGATAAATTAGATGCTTCAGAATC
ACTGAGAAAAGAAGAAGAACAAGCTACAGAGACACAACCCATTGTTTATGGTCAGCCCCAGTTGATGCTGACAGC
AGGACCCAGTGTTGCCGTCCCTCCCCAGGCACCTTTTGGTTATGGTTATACCGCACCACCGTATGGACAGCCACA
GCCTGGCTTTGGGTACAGCATG**TGA**GATGAAGCGCTGATCCTGTAGTCACCTATTTTCGTACTGAAACATCGTCT
TTACCCACTTCTCAGTTTATAATGGGGGAAAACAGGCAACGTGTTCTTGTAACCTTTATTTCATGAAGGACTTCT
TTTTGTTTCTAACTATAAACTTGGATCACCTATGTTAAAACCTTATTTCACATTCCACATCATTTTAGAATTTAT
TTTCGAAGGGGAATAGTTTCAATGTTTTATTCACTTGGGCTTTTTTTCTTCCCCCTCTTTCTTTAAAGAACTGCT
CAATATTCAATCTGTTGTGAAGAACCTGATTTGCACTCTGTAGTGTTTAAAGAAACAAAGAAACTCTAATATTGA
ATCTCTTAAATTTAGTGTATGTAAACAGCTTACAAATACGTATTGTCTAAATGCATTTAAATCTGTTTTATTCAA
AGAAAAGCTAAAGCAAAAACACTGGCATATGACCATGCAAGACTGTCAGTGCCAACAAAGACAACACTAATCAGC
ACATCGTACACTGGATTGCAGTGCTTCCCAGATTATTGAAAAATGTTACAGACAACTTGCCTGATTTTTAAATGA
GCGTAAAAGGCCCTCTAACCTATGCAGGTTTCCCCATTATGCATATAGAAAATGCTAGTATGTTTGCTCACTTC
ATATGTAACAGGTGCCCTTATGTTGTGCTGTATCCTGTGCTTTTTCTGTGGGACCATTCCATTCAGGAGCAAAGA
GCACCATGATTCCAATCTTGTGTGTGTTTACTAACCCTTCCCTGAGGCTTGTGTATGTTGGATATTGTGGTGTTT
TAGATCACTGAGTGTACAGAAGAGAGAAATTCAAACAAAATATTGCTGTTCTTCAGTTTTGTTTGTGGAATTTGA
AATTACTCAAATTTAAAATAAATTACTGGACTGTGG

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FIGURE 4922

MAQILPIRFQEHLQLQNLGINPANIGFSTLTMESDKFICIREKVGEQAQVVIIDMNDPSNPIRRPISADSAIMNP
ASKVIALKAGKTLQIFNIEMKSKMKAHTMTDDVTFWKWISLNTVALVTDNAVYHWSMEGESQPVKMFDRHSSLAG
CQIINYRTDAKQKWLLLTGISAQQNRVVGAMQLYSVDRKVSQPIEGHAASFAQFKMEGNAEESTLFCFAVRGQAG
GKLHIIEVGTPPTGNQPFPKKAVDVFFPPEAQNDFPVAMQISEKHDVVFLITKYGYIHLYDLETGTCIYMNRISG
ETIFVTAPHEATAGIIGVNRKGQVLSVCVEEENIIPYITNVLQNPDLALRMAVRNNLAGAEELFARKFNALFAQG
NYSEAAKVAANAPKGILRTPDTIRRFQSVPAQPGQTSPLLQYFGILLDQGQLNKYESLELCRPVLQQGRKQLLEK
WLKEDKLECSEELGDLVKSVDPTLALSVYLRANVPNKVIQCFAETGQVQKIVLYAKKVGYTPDWIFLLRNVMRIS
PDQGQQFAQMLVQDEEPLADITQIVDVFMEYNLIQQCTAFLLDALKNNRPSEGPLQTRLLEMNLMHAPQVADAIL
GNQMFTHYDRAHIAQLCEKAGLLQRALEHFTDLYDIKRAVVHTHLLNPEWLVNYFGSLSVEDSLECLRAMLSANI
RQNLQICVQVASKYHEQLSTQSLIELFESFKSFEGLFYFLGSIVNFSQDPDVHFKYIQAACKTGQIKEVERICRE
SNCYDPERVKNFLKEAKLTDQLPLIIVCDRFDFVHDLVLYLYRNNLQKYIEIYVQKVNPSRLPVVIGGLLDVDCS
EDVIKNLILVVRGQFSTDELVAEVEKRNRLKLLLPWLEARIHEGCEEPATHNALAKIYIDSNNNPERFLRENPYY
DSRVVGKYCEKRDPHLACVAYERGQCDLELINVCNENSLFKSLSRYLVRRKDPELWGSVLLESNPYRRPLIDQVV
QTALSETQDPEEVSVTVKAFMTADLPNELIELLEKIVLDNSVFSEHRNLQNLLILTAIKADRTRVMEYINRLDNY
DAPDIANIAISNELFEEAFAIFRKFDVNTSAVQVLIEHIGNLDRAYEFAERCNEPAVWSQLAKAQLQKGMVKEAI
DSYIKADDPSSYMEVVQAANTSGNWEELVKYLQMARKKARESYVETELIFALAKTNRLAELEEFINGPNNAHIQQ
VGDRCYDEKMYDAAKLLYNNVSNFGRLASTLVHLGEYQAAVDGARKANSTRTWKEVCFACVDGKEFRLAQMCGLH
IVVHADELEELINYYQDRGYFEELITMLEAALGLERAHMGMFTELAILYSKFKPQKMREHLELFWSRVNIPKVLR
AAEQAHLWAELVFLYDKYEEYDNAIITMMNHPTDAWKEGQFKDIITKVANVELYYRAIQFYLEFKPLLLNDLLMV
LSPRLDHTRAVNYFSKVKQLPLVKPYLRSVQNHNNKSVNESLNNLFITEEDYQALRTSIDAYDNFDNISLAQRLE
KHELIEFRRIAAYLFKGNNRWKQSVELCKKDSLYKDAMQYASESKDTELAEELLQWFLQEEKRECFGACLFTCYD
LLRPDVVLETAWRHNIMDFAMPYFIQVMKEYLTKVDKLDASESLRKEEEQATETQPIVYGQPQLMLTAGPSVAVP
PQAPFGYGYTAPPYGQPQPGFGYSM

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FIGURE 4923

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TTTCCAGCCCCGGCCCCGGACCCTGCAGCTGCAGAGATGTTGATGCCTAAGAAGAACTGGATTGCCATTTATGAA
CTCCTTTTTAAGGAGGGAGTCATGGTGGCCAAGAAGGATGTCCACATGCCTAAGCACCCGGAGCTGGCAGACAAG
AATGTGCCCAACCTTCATGTCATGAAGGCCATGCAGTCTCTCAAGTGCCGAGGCTACGTGAAAGAACACTTTGCC
TGGAGACATTTCTACTGGTACCTTACCAATGAGTGTATCCAGTATCTCCGTGATTACCTTCATCTGCCCCCGGAG
ATTGTGCCTGCCACCCTACGCCGTAGCCGTCCAGAGACTGGCAGGCCTCGGCCTAAAGGTCTGTATATGAGGAGT
GCTGTGCTACCTGGTGCCGACAAGAAAGCCGAGGCTGGGGCTGGGTCAGCAACCGAATTCTAGTTTAGAGGCGGA
TTTGGTTGTGGACGTGGTCAGCCACCTCAGTAAAACTGGAGAGGATTCTTTTGCATTGAATAAATTTACAGCCAA
AAAA
```

FIGURE 4924

AACCGGCGCCAGCC**ATG**GCCTCTGGGGCGGGCGGAAGCTGGGGTCGCTCCCCACCGCAGAGCGCAGTCCCGACGC
CCTGGGTCACCTTCCTGCAGCCCCTCTCGTGGGCCGTCCCACCTGCGCCCCCGCAGCCAGGCCGCGTGAAGGAAG
ACCTGCTGGAACTGATGATGCTGCAGAACGCGCAGATGCACCAGCTGCTGCTGAGTCGCCTGGTGGCTGGAGCGC
TGCAGCCCCGGCCTGCCTCGCCCTGCCCTCAGGTCTACCTGGAGGTTCCACAGGAAGAGCCTGAGGAGGAGGAGG
AGGAGATGGACGTGCGGGAGAAAGGGCCTTTGGTGTTTCACCACCACTACTTGCCCTATTTGATGCCCTCCCCGG
GTGCCCTGCTGCCCTGGCCAGCCCCCTTCTTCCCCACCCCTGCTTGTCAGCCCTACTTGCAGGACGTGCCCAGGA
TTCAGCACTGTCCTGCCTCCAGGGAAAGGGAGGTGAGAGCTGTGCCCCCACCCCCACCCCCCAGTGCCACAGGGA
CTGTGGGTGCTGATGTACCCCCGGCTTCAGACTACTATGATGCCGAGAGCCTCCTA**TGA**GGACAGACCCCGGCCC
TGGGAACTGCACCAGCTTCCTGCTCTGGATACAGCCCCGGAGCCGCCTCCTGCACCTCTCTTGTCGACTCCCCGG
TGCCCATGGCTGGCAGTCCTTCTCACTCCCTCAACCTCAGCCAGGCCCTCTTCTCCTGGGGAAATCAGTCCCTGC
CCCACGCCAATGAGTTCCTGGACGGGCCGGATCTGTGCTGTTGTGTAAGAGCTCCCTAGAGCACCACCCAGGCCC
TTGAAGCCACGTCAGCCCGCCTCTGCCCCACTGCTTCCTGCCTGGAGCAGGGGGAGGCCTGGGAACAGAGCCCCC
ACCCTCTCTCCCTCACCCCTCTCTCTGGGATGATGAGGTCTCCTTCCAGCCTAGTAATGGAGCAAGAGGGGAGGG
GGGGATTCCTTCTGCTTTCCACAGCTTTGAAGGCCCCTTTGAGGTGGCTGGAGGGGCCCAGAGTGGTCGGGGAGA
GACTTTGCTGGGCAGCGCCCCTGAGCAGAGTCAGTTCGCTGGGCCCCCCACCCCTCATCCCAGGAAGCAGCTCTG
TTGGCAGAAAGGAGAGGTCAGAGCTTTGTCCTGCTGTGGCCAGGAGTGGCCTGAGGTCTCCTGGGGCCAGGTGGG
AACAGTGTGTCCTCTGCCCCCTGGGCCAGGGTGTGTTTCCCCCACCCTCCCTCAGTAGCAATGAGCTACTCGGGC
CAGATGGGGGCCTGTTGCATGGGCTGGGAGGCCCCTGTGAAGGAGAGGGTGGGGAGGGAGGCATCTAGGGAGAGG
GGTCCCCCATGGTGGCTCCCCTCCCTGGCCATTGTTATCCCAGGAGGAGACACTGTGGGCACAGGGCTAAGTCCA
GGTGTTTGTATTCGGGCTAGAAAAGGCAATGTCCCAAGTCTCTGCTGCCTGTCACAGTCCTTCAGCCAGGGCTGG
ACCTCAACCCTGAGGAGTCACACTGAGTTCCAGTGACCACCGTGGTGGTGGCCATGCCACTCATGGTTGCTATGG
CCGGAAGGCCTGGGGCAGCCTCCTCCAAGCCGCTCGCACCCCGTAGGTGCCCATCCGCTGCTGGCGCAAGTGCTG
GCCGAAGATGAAGCAGAGCAGGACAGATGTCACGAACAGGGACAGCAACACCGACACCACCGTGACTATGATGAC
CATCTGGCTGTCCGACACAGGCTCTGGGGAGGGAGGGGGCAAGGGTCTTAGACGTCCTGTGATCCCAGTTACCAG
GGACCAAAAGGGAGTGGAAGTCCACCCCCAACCCAGACCCCCAGACCCCGCCGCCCGCTCATGCATCCAGCAGTC
ACCCCAGTTGCAGAGATGAGTGGTGAATGGTGTCTGCATTAAAATTATTATCTGGAAAAAAGGTGGCCCAGGGCT
CAGGCTACCAGCTGGACTTCTGTGTGGCTGTGAGGGCAGATGTCCCCTTGTCAGCAGCCATGGGACCAGTGTGTA
GCTGCTGGACACCGTGGCCTGGAGGGTGGCATGGTCCCAGCCAAGCCCCTTCTTGGGCAGAGCTGAGTGAACTTC
ATGCCAGGCTCCCTGTGTGCCGGCCGTCCAGGGTCACCAAGCAGCAGAGCTCTGGGGACCTCAGTGGGGGCAGTC
AGGCCAAACTTCTCATTGTGGAGGGGAGCCAAGGCCAGGGAGAGCCGTCAAGGTCATGGGGCTTGATGGTGGCCG
AGGAACTAGTTGACCTCTCCCGACCTCTGGAGCAGTTGAGGTCCAAGCTGGGGACTTGGAAAGAACTTCAGGGAA
GAGGGAGAGTAAGAGGGAAGCCTCAGGATGAAGGGTGGGCTCCTGGGTGTTTGCTTCCCAAGTGGGACTCAAGAT
TTTTCTTCCCCCGAGGGGCTGAAAGTGACTTATCACTCCCAACTCCATCCACGGATCCCCCCTCACCATAGATCT
CCAACATCTTCGGGGCTGAGTGTTTGTGAAAGATGTTGCCACCGCGAGACATCAAGTCCAGCACAGCCAGGCAGG
AGAAGTTGCGGTGGCCATCCTCTCTGTCAGCCGTGCTGTTGAATGTGGCTGTGGCCTCCTGCGGAGCAGGGGCTG
CCTTCCCGAAGGTCTCATAGTGCAGAGTCTCATTGCCACGGAACAGGAAGAGGGTGAGGCTGTCCAGGGGCTCCA
CGGTGGGCACCCTGCACTCAATGGTGAAGGACTTGCCCACAGCCACCAAAGTGGGTTGCAGTGTCAGGATGACCT
GCCTTGGAGGCTCTGCAGGGGACAAAGGAGGGAGGTCTGGTCAGGATGGGGGTGCAGTCCCAGCAGCCTCCCCCT
GGCCAGGGCCATCTCCTGTCACCATGGTGTTCCACGGTTGGGGAGGAGGTGGCCTGGCCGGCTCCAGTGCAGAGA
GGAAGAGGGCAGCAGTTGAGGATGGAGGCTGGACTGTGTGGTAGTTTTACAGACATGATGGTTTCCGGTGACCAG
GTGTCTACAAGGACAAGGTTCAGAAATTGTACAGCCAACTGGAAAGATATAAAAGTTTGGGTCTGTCTCCTCTCC
TTCAGAAATGAAATATAAATTTCAAACATTAAACAGTTGGGTGATCACGTTG

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FIGURE 4925

MASGAGGSWGRSPPQSAVPTPWVTFLQPLSWAVPPAPPQPGRVKEDLLELMMLQNAQMHQLLLSRLVAGALQPRP
ASPCPQVYLEVPQEEPEEEEEEMDVREKGPLVFHHHYLPYLMPSPGALLPWPAPFFPTPACQPYLQDVPRIQHCP
ASREREVRAVPPPPPPSATGTVGADVPPASDYYDAESLL

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FIGURE 4926

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GGCGGCCAAACCTCCGGAGGCCGGGGACGGAAGGCGGGCCCGCAGCAGATCCTGGATCCGGAATCTCCCGGGCAG
GAGCGGAATCTGTCCCGAACCGGGTCTGTGAGGAACTCGCGAACTTGGATTAGGAAATCCCGGAGCCCGGATCGA
CAAATCCCGGAACCCGGAATTAAGATCGCCAAGTCCCGGATCGCGGAGCACAGAGCACGGAGTGGACTCGACGCG
GAGCCCGGAGTCCGGATCGCGGCACCGCGGGACGGGACGGAGCGATGTCGGGCCGAGGCGCGGGCGGGTTCCCGC
TGCCCCCGCTAAGCCCTGGCGGCGGCGCCGTGGCTGCGGCCCTGGGAGCGCCGCCTCCCCCCGCGGGACCCGGCA
TGCTGCCCGGACCGGCGCTCCGGGGACCGGGTCCGGCAGGAGGCGTGGGGGGCCCCGGGGCCGCCGCCTTCCGCC
CCATGGGCCCCGCGGGCCCCGCGGCGCAGTACCAGCGACCTGGCATGTCACCAGGGAACCGGATGCCCATGGCTG
GCTTGCAGGTGGGACCCCCTGCTGGCTCCCCATTTGGTGCAGCAGCTCCGCTTCGACCTGGCATGCCACCCACCA
TGATGGATCCATTCCGAAAACGCCTGCTTGTGCCCCAGGCGCAGCCTCCCATGCCTGCCCAGCGCCGGGGGTTAA
AGAGGAGGAAGATGGCAGATAAGGTTCTACCTCAGCGAATCCGGGAGCTTGTTCCAGAGTCTCAGGCGTACATGG
ATCTCTTGGCTTTTGAGCGGAAGCTGGACCAGACCATTGCTCGCAAGCGGATGGAGATCCAGGAGGCCATCAAAA
AGCCTCTGACACAAAAGCGAAAGCTTCGGATCTACATTTCCAATACGTTCAGTCCCAGCAAGGCGGAAGGCGATA
GTGCAGGAACTGCAGGGACCCCTGGGGGAACCCCAGCAGGGGACAAGGTGGCTTCCTGGGAACTCCGAGTGGAAG
GAAAACTGCTGGATGATCCTAGCAAACAGAAGAGGAAGTTTTCTTCATTCTTTAAGAGCCTCGTCATTGAGCTGG
ACAAGGAGCTGTACGGGCCTGACAATCACCTGGTGGAGTGGCACCGGATGCCCACCACCCAGGAGACAGATGGCT
TCCAAGTAAAACGGCCTGGAGACCTCAACGTCAAGTGCACCCTCCTGCTCATGCTGGATCATCAGCCTCCCCAGT
ACAAATTGGACCCCCGATTGGCAAGGCTGCTGGGAGTGCACACGCAGACGAGGGCCGCCATCATGCAGGCCCTGT
GGCTTTACATCAAGCACAACCAGCTGCAGGATGGGCACGAGCGGGAGTACATCAACTGCAACCGTTACTTCCGCC
AGATCTTCAGTTGTGGCCGACTCCGTTTCTCCGAGATTCCCATGAAGCTGGCAGGGTTGCTGCAGCATCCAGACC
CCATTGTCATCAACCATGTCATTAGTGTCGACCCTAACGACCAGAAGAAGACAGCCTGTTACGACATCGATGTGG
AGGTGGACGACCCACTGAAGGCCCAAATGAGCAATTTTCTGGCCTCTACCACCAATCAGCAGGAGATCGCCTCCC
TTGATGTCAAGATCCATGAGACCATTGAGTCCATCAACCAGCTGAAGACCCAGAGAGATTTCATGCTCAGTTTTA
GCACCGACCCCCAGGACTTCATCCAGGAATGGCTCCGTTCCCAGCGCCGAGACCTCAAGATCATCACTGATGTGA
TTGGAAATCCTGAGGAGGAGAGACGAGCTGCTTTCTACCACCAGCCCTGGGCCCAGGAAGCAGTAGGCAGGCACA
TCTTTGCCAAGGTGCAGCAGCGAAGGCAGGAACTGGAACAGGTGCTGGGAATTCGCCTGACCTAACTGCTCAGGG
ATCTTTCTTCCCAGCCCTGGAGCCTGGAGGGAGACCACCCTCTGGGTCCTTGCTGGGGCCGCAGACACGTAGGCT
GGGGTGAGGAGTGTCTGCTGTCACCCTCTACTCTCCAGCTTTAGTCTTATAAATGTAGTGATAGGATTCCTTGTT
GCTTGGTCCCCAAAGCCTTATACTTTTTGCATTGGCTTTAATTGGGTTCAGCAGATGCCTCCTCTGCCCCCCTGC
AGGCAGGCCCAAGTAGGACTGCTGGAGGCTGTGCTTTGACATTGTAAGACATTTCCGAACCAAAGGCTGCTGGGT
TTGCATGTTTACAGACTCCCCCTGGGGCGAGGGTCAGAGCTGGCTCTGGGGAGCTGGGCTAGGAAGAGGAGGTGC
AGCCCAGACTCTTCCTAGCCTTTCTAAACCAAAGTTCTTTGCCATTCCTACAAGCCCAGCCTTGCTGCTGGTTTT
TTCCTTTCCTTTGGGTATTTGCACTATTTTGGGAGCAAGTTTTCTATGTGGGAGCCACTTTTTTTGTACAGGGGT
AAGTTGGGGGTTTTCAGGGAGCCTGTTAGGTGCCTCCTTCTTTTCTTTCCTCAATCTATGCAAGCGGCTCTGGCC
GCCATCATCTCCTGGGATGCCAGAGGGCTGCCTCTCCAGCGGCTTGGGCCGGGGAGGGGACACTCCAGTTCTCTA
GCATGGCCTGAGGTATGGGGTATGTGCATGTGGAGGCCAGGGTAAGGTGAATGGGGGAGGCTGGGAGGACTGGTGT
TGCCCTTTGGAGCTTGGTGAGGAGGGTGGGCCTAGGGCTTGGCGAGTGCCACATCTGGCAGGTTTGGAAATTTCC
AAATAAATCCTTTTGTCT
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FIGURE 4927

ATGGCGCTTGACGGACCAGAGCAGATGGAGCTGGAGGAGGGGAAGGCAGGCAGCGGACTCCGCCAATATTATCTG
TCCAAGATTGAAGAACTCCAGCTGATTGTGAATGATAAGAGCCAAAACCTCCGGAGGCTGCAGGCACAGAGGAAC
GAACTAAATGCTAAAGTTCGCCTATTGCGGGAGGAGCTACAGCTGCTGCAGGAGCAGGGCTCCTATGTGGGGGAA
GTAGTCCGGGCCATGGATAAGAAGAAAGTGTTGGTCAAGGTACATCCTGAAGGTAAATTTGTTGTAGACGTGGAC
AAAAACATTGACATCAATGATGTGACACCCAATTGCCGGGTGGCTCTAAGGAATGACAGCTACACTCTGCACAAG
ATCCTGCCCAACAAGGTAGACCCATTAGTGTCACTGATGATGGTGGAGAAAGTACCAGATTCAACTTATGAGATG
ATTGGTGGACTGGACAAACAGATCAAGGAGATCAAAGAAGTGATCGAGCTGCCTGTTAAGCATCCTGAGCTCTTC
GAAGCACTGGGCATTGCTCAGCCCAAGGGAGTGCTGCTGTATGGACCTCCAGGCACTGGGAAGACACTGTTGGCC
CGGGCTGTGGCTCATCATACGGACTGTACCTTTATTCGTGTCTCTGGCTCTGAACTGGTACAGAAATTCATAGGG
GAAGGGGCAAGAATGGTGAGGGAGCTGTTTGTCATGGCACGGGAACATGCTCCATCTATCATCTTCATGGACGAA
ATCGACTCCATCGGCTCCTCGCGGCTGGAGGGGGGTTCTGGAGGGGACAGTGAAGTGCAGCGCACGATGCTGGAG
TTGCTCAACCAGCTCGACGGCTTTGAGGCCACCAAGAACATCAAGGTTATCATGGCTACTAATAGGATTGATATC
CTGGACTCGGCACTGCTTCGCCCAGGGCGCATTGACAGAAAAATTGAATTCCCACCCCCCAATGAGGAGGCCCGG
CTGGACATTTTGAAGATTCATTCTCGGAAGATGAACCTGACCCGGGGGATCAACCTGAGAAAAATTGCTGAGCTC
ATGCCAGGAGCATCAGGGGCTGAAGTGAAGGGCGTGTGCACAGAAGCTGGCATGTATGCCCTGCGAGAACGGCGA
GTCCATGTCACTCAGGAGGACTTTGAGATGGCAGTAGCCAAGGTCATGCAGAAGGACAGTGAGAAAAACATGTCC
ATCAAGAAATTATGGAAG**TGA**GTGGACAGCCTTTGTGTGTATCTCTCCAATAAAGCTCTGTGGGCCAAGTC

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FIGURE 4928

MALDGPEQMELEEGKAGSGLRQYYLSKIEELQLIVNDKSQNLRRLQAQRNELNAKVRLLREELQLLQEQGSYVGE
VVRAMDKKKVLVKVHPEGKFVVDVDKNIDINDVTPNCRVALRNDSYTLHKILPNKVDPLVSLMMVEKVPDSTYEM
IGGLDKQIKEIKEVIELPVKHPELFEALGIAQPKGVLLYGPPGTGKTLLARAVAHHTDCTFIRVSGSELVQKFIG
EGARMVRELFVMAREHAPSIIFMDEIDSIGSSRLEGGSGGDSEVQRTMLELLNQLDGFEATKNIKVIMATNRIDI
LDSALLRPGRIDRKIEFPPPNEEARLDILKIHSRKMNLTRGINLRKIAELMPGASGAEVKGVCTEAGMYALRERR
VHVTQEDFEMAVAKVMQKDSEKNMSIKKLWK

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FIGURE 4929

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ATACTTGTGCGGTTCCAAGTGTGGAGAAAGCGGCTCTGGGTCTAGATTGAGGGATACTCCCCCTTTCCACCATGG
GCAAGAAGGGCAAAGTTGGCAAGAGCCGACGAGACAAGTTTTATCACTTGGCGAAGGAGACGGGTTACCGTTCCC
GATCTGCTTTCAAGCTGATCCAGCTCAATCGCCGCTTTCAGTTCCTGCAGAAAGCCCGAGCCTTGCTGGACCTGT
GTGCTGCGCCAGGGGGATGGCTGCAGGTAGCTGCCAAGTTTATGCCTGTATCCAGCCTTATTGTGGGAGTGGACC
TGGTTCCAATCAAGCCTCTCCCCAATGTGGTGACTCTCCAGGAGGACATCACAACAGAACGTTGTAGGCAGGCCC
TGAGGAAGGAGCTGAAGACCTGGAAGGTTGATGTTGTGCTCAATGATGGGGCCCCCAACGTTGGGGCTAGCTGGG
TCCATGATGCTTACTCACAAGCCCATTTGACACTGATGGCTCTACGTTTGGCTTGTGACTTTTTGGCCCGTGGTG
GCAGCTTCATCACAAAGGTTTTCCGTTCTCGTGACTATCAGCCTCTGCTATGGATCTTTCAGCAGCTGTTCCGCC
GTGTCCAGGCCACCAAGCCCCAAGCCTCTCGCCATGAATCTGCAGAGATCTTTGTAGTCTGCCAAGGATTCCTGG
CCCCTGACAAGGTTGACAGTAAATTCTTTGACCCCAAATTTGCCTTTAAGGAGGTTGAAGTTCAGGCTAAGACCG
TTACTGAATTGGTTACTAAGAAGAAGCCAAAGGCTGAAGGCTATGCTGAGGGTGACCTCACTCTCTATCACCGTA
CCTCAGTCACTGACTTCCTCCGAGCTGCCAACCCTGTTGACTTCCTCTCCAAGGCCAGCGAAATCATGGTAGATG
ATGAAGAGTTGGCACAGCATCCAGCTACCACTGAGGACATACGGGTGTGCTGTCAGGACATCAGAGTGTTGGGGC
GCAAGGAGCTCAGGTCGCTACTAAACTGGAGAACAAAACTTCGGCGATATGTGGCCAAGAAGCTGAAAGAACAAG
CAAAGGCACTGGACATCAGCCTCAGCTCTGGAGAGGAAGATGAAGGTGATGAGGAGGACTCAACAGCTGGAACCA
CAAAGCAGCCCTCTAAGGAGGAGGAGGAAGAGGAGGAGGAGGAACAACTGAACCAGACCTTGGCAGAAATGAAGG
CCCAGGAGGTGGCGGAATTGAAGAGGAAGAAAAAGAAGCTGTTGCGTGAGCAGAGAAAGCAGCGGGAGCGTGTGG
AGCTGAAGATGGATCTGCCTGGGGTTTCCATTGCAGACGAGGGGGAGACTGGCATGTTCTCCTTGTGCACCATCC
GGGGTCACCAGTTATTAGAGGAAGTAACACAAGGGGATATGAGTGCAGCAGACACATTTCTGTCCGATCTGCCAA
GGGATGATATCTATGTGTCAGATGTTGAGGACGACGGTGATGACACATCTCTGGATAGTGACCTGGATCCAGAGG
AGCTGGCAGGAGTCAGGGGACATCAGGGTCTAAGGGACCAAAAGCGTATGCGACTTACTGAAGTGCAAGATGATA
AAGAGGAGGAGGAGGAGGAGAATCCACTGCTGGTACCACTGGAGGAAAAGGCAGTACTGCAGGAAGAACAAGCCA
ACCTGTGGTTCTCAAAGGGCAGCTTTGCTGGGATCGAGGACGATGCCGATGAGGCCCTGGAGATCAGTCAGGCCC
AGCTGTTATTTGAGAACCGGCGGAAGGGACGGCAGCAGCAGCAGAAGCAGCAGCTGCCACAGACACCCCCTTCCT
GTTTGAAGACTGAGATAATGTCTCCCCTGTACCAAGATGAAGCCCCTAAGGGAACAGAGGCTTCTTCGGGGACAG
AAGCTGCCACTGGCCTTGAAGGGGAAGAAAAGGATGGCATCTCAGCAGTGATAGCAGTACTAGCAGTGAGGAAG
AAGAGAGCTGGGAACCCCTCCGTGGTAAGAAGCGAAGCCGTGGGCCTAAGTCAGATGATGACGGGTTTGAGATAG
TGCCTATTGAGGACCCAGCGAAACATCGGATACTGGACCCCGAAGGCCTTGCTCTAGGTGCTGTTATTGCCTCTT
CCAAAAAGGCCAAGAGAGACCTCATAGATAACTCCTTCAACCGGTACACATTTAATGAGGATGAGGGGGGAGCTTC
CGGAGTGGTTTGTGCAAGAGGAAAAGCAGCACCGGATACGACAGTTGCCTGTTGGTAAGAAGGAGGTGGAGCATT
ACCGGAAACGCTGGCGGGAAATCAATGCACGTCCCATCAAGAAGGTGGCTGAGGCTAAGGCTAGAAAGAAAAGGA
GGATGCTGAAGAGGCTGGAGCAGACCAGGAAGAAGGCAGAAGCCGTGGTGAACACAGTGGACATCTCAGAACGAG
AGAAAGTGGCACAGCTGCGAAGTCTCTACAAGAAGGCTGGGCTTGGCAAGGAGAAACGCCATGTCACCTACGTTG
TAGCCAAAAAAGGTGTGGGCCGCAAAGTGCGCCGGCCAGCTGGAGTCAGAGGTCATTTCAAGGTGGTGGACTCAA
GGATGAAGAAGGACCAAAGAGCACAGCAACGTAAGGAACAAAAGAAAAAACACAAACGGAAGTAAGCAGAGCTGC
CAGGCTCCCAGGAGAGCATGGGGACTAGGAGGAAGGGTGTGGCATGGCTCAGTCTGGCCCCCTTGATTACCGGCC
TAGCCCCTGCTCACATCACAGCTGTCTGAAGAACAGTGAGGTGGAGTGCCTAGAACTCCCGTGGTGGTCCTGAGC
AGAGAGGAGGATGTCCTCCTGCCTGCCTGAAGGTCTCCCATGAAAACACTGCTGAACTGTGTTGACACTCATGAC
CCTTTTTTTAAACCGTTAAAGGGAAGTTCGGTGTTGGAGCGATACTCAATGTAGTCAGTCTACACCTGGACGTGT
GGGCCACTTAAGCCCTCCCCACCCCCATCCTATTCCTAAATAAAACCAGGATAATGGAAAAAAAAAAAAAAAAA
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FIGURE 4930

MGKKGKVGKSRRDKFYHLAKETGYRSRSAFKLIQLNRRFQFLQKARALLDLCAAPGGWLQVAAKFMPVSSLIVGV
DLVPIKPLPNVVTLQEDITTERCRQALRKELKTWKVDVVLNDGAPNVGASWVHDAYSQAHLTLMALRLACDFLAR
GGSFITKVFRSRDYQPLLWIFQQLFRRVQATKPQASRHESAEIFVVCQGFLAPDKVDSKFFDPKFAFKEVEVQAK
TVTELVTKKKPKAEGYAEGDLTLYHRTSVTDFLRAANPVDFLSKASEIMVDDEELAQHPATTEDIRVCCQDIRVL
GRKELRSLLNWRTKLRRYVAKKLKEQAKALDISLSSGEEDEGDEEDSTAGTTKQPSKEEEEEEEEEQLNQTLAEM
KAQEVAELKRKKKKLLREQRKQRERVELKMDLPGVSIADEGETGMFSLCTIRGHQLLEEVTQGDMSAADTFLSDL
PRDDIYVSDVEDDGDDTSLDSDLDPEELAGVRGHQGLRDQKRMRLTEVQDDKEEEEEENPLLVPLEEKAVLQEEQ
ANLWFSKGSFAGIEDDADEALEISQAQLLFENRRKGRQQQQKQQLPQTPPSCLKTEIMSPLYQDEAPKGTEASSG
TEAATGLEGEEKDGISDSDSSTSSEEEESWEPLRGKKRSRGPKSDDDGFEIVPIEDPAKHRILDPEGLALGAVIA
SSKKAKRDLIDNSFNRYTFNEDEGELPEWFVQEEKQHRIRQLPVGKKEVEHYRKRWREINARPIKKVAEAKARKK
RRMLKRLEQTRKKAEAVVNTVDISEREKVAQLRSLYKKAGLGKEKRHVTYVVAKKGVGRKVRRPAGVRGHFKVVD
SRMKKDQRAQQRKEQKKKHKRK

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FIGURE 4931

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ATCCCTTGGAGGCATTCATGGCTGAAGTGGAGGATCAGGCAGCTAGAGACATGAAGAGGCTTGAAGAAAAGGACA
AGGAAAGAAAAAACGTAAAGGGTATTCGAGATGACATTGAAGAGGAAGATGACCAAGAAGCTTATTTTCGATACA
TGGCAGAAAACCCAACTGCTGGTGTGGTTCAGGAGGAAGAGGAAGACAATCTAGAATATGATAGTGACGGAAATC
CAATTGCACCTACCAAAAAAATCATTGATCCTCTTCCCCCCATTGATCATTCAGAGATTGACTATCCACCATTTG
AAAAAAACTTTTACAATGAGCATGAAGAGATAACCAACCTCACTCCACAGCAGTTAATAGATCTCCGGCATAAGC
TCAATCTTCGGGTCTCTGGTGCTGCACCTCCTAGACCAGGAAGTAGCTTTGCTCATTTTGGGTTTGACGAACAAC
TTATGCACCAGATTCGGAAATCTGAATACACACAGCCCACTCCAATACAGTGCCAGGGTGTGCCTGTGGCATTAA
GTGGTAGAGACATGATTGGTATTGCCAAAACAGGTAGTGGGAAAACTGCAGCCTTCATTTGGCCCATGTTGATTC
ATATAATGGACCAGAAGGAGTTGGAACCAGGTGATGGACCAATTGCAGTGATTGTGTGTCCTACCAGGGAGCTTT
GCCAGCAGATCCATGCAGAATGTAAGCGGTTTGGAAAAGCATATAATCTTCGATCAGTGGCCGTATATGGAGGAG
GGAGTATGTGGGAGCAGGCCAAGGCCCTTCAGGAGGGGGCAGAGATTGTTGTGTGTACCCCAGGTCGACTGATAG
ATCATGTGAAAAAGAAAGCTACCAATCTTCAAAGAGTCTCTTACCTTGTGTTTGATGAAGCAGATCGAATGTTTG
ACATGGGATTTGAGTACCAAGTTCGATCCATAGCAAGTCATGTTCGTCCTGACAGGCAGACTCTCTTATTTAGTG
CAACTTTTCGGAAGAAGATTGAAAAGTTGGCCAGAGACATCCTGATCGACCCTATTCGAGTGGTGCAGGGAGATA
TTGGAGAGGCAAATGAAGATGTGACACAGATTGTGGAGATTCTCCATTCTGGACCTAGTAAATGGAACTGGCTTA
CCCGGCGTCTGGTAGAATTTACCTCTTCAGGGAGTGTCCTCCTCTTTGTTACTAAAAAAGCCAATGCTGAAGAGC
TAGCGAATAACCTTAAACAGGAGGGTCATAATCTTGGGCTGCTCCATGGGGATATGGATCAGAGTGAGAGAAACA
AGGTCATTTCAGACTTTAAGAAAAAGGACATCCCAGTCCTGGTGGCCACAGATGTTGCAGCCCGTGGTCTGGACA
TTCCTTCAATTAAGACTGTCATTAACTATGATGTGGCACGAGACATTGATACCCACACGCATAGGATTGGCCGCA
CAGGAAGAGCGGGTGAGAAGGTGTGGCCTATACCCTACTCACTCCCAAGGACAGCAATTTTGCTGGTGACCTGG
TCCGGAACTTGGAAGGAGCCAATCAACACGTTTCTAAGGAACTCCTAGATCTGGCAATGCAGAATGCCTGGTTTC
GGAAATCTCGATTCAAAGGAGGGAAAGGAAAAAAGCTGAACATTGGTGGAGGAGGCCTAGGCTACAGGGAGCGGC
CTGGCCTGGGCTCTGAGAACATGGATCGAGGAAATAACAATGTAATGAGCAATTATGAGGCCTACAAGCCTTCCA
CAGGAGCTATGGGAGATCGACTAACGGCAATGAAAGCAGCTTTCCAGTCACAGTACAAGAGTCACTTTGTTGCAG
CCAGTTTAAGTAATCAGAAGGCTGGAAGTTCTGCTGCTGGGGGCAAGTGGGTGGACTAGTGCAGGGAGCTTGAATT
CTGTTCCAACTAACTCAGCACAACAGGGCCATAACAGTCCTGACAGCCCCGTCACCAGTGCCGCCAAGGGCATCC
CAGGCTTTGGCAATACTGGCAACATCAGTGGTGCCCCTGTGACCTACCCGTCTGCCGGAGCCCAAGGAGTCAACA
ACACAGCTTCAGGGAATAACAGCCGAGAAGGGACTGGGGGCAGCAACGGGAAAAGAGAGAGATATACTGAGAACC
GGGGCAGCAGCCCGTCACAGTCACGGAGAGACTGGCAATCGGCATAGCGATAGTCCACGTCACGGAGATGGTGGT
CGCCATGGAGATGGATACCGCCATCCAGAAAGCAGCAGCCGTCATACTGATGGCCATCGGCACGGGGAGAACAGA
CATGGAGGAAGCGCAGGCCGGCATGGGGAGAACCGGGGTGCAAATGATGGTCGGAATGGGGAAAGCAGGAAAGAA
GCTTTTAATCGTGAGAGCAAGATGGAGCCCAAGATGGAACCCAAAGTGGACAGCAGCAAGATGGACAAGGTGGAC
AGCAAGACAGATAAGACAGCTGACGGCTTTGCTGTCCCAGAGCCGCCTAAACGCAAGAAAAGTCGATGGGACAGT
TAGAGGGGATGTGCTAAAGCGTGAAATCAGTTGTCCTTAATTTTTAGAAAGATTTTGGTAACTAGGTGTCTCAGG
GCTGGGTTGGGGTCCAAAGTGTAAGGACCCCCTGCCCTTAGTGGAGAGCTGGAGCTTGGAGACATTACCCCTTCA
TCAGAAGGAATTTTCGGATGTTTTCTTGGGAAGCTGTTTTGGTCCTTGGAAGCAGTGAGAGCTGGGAAGCTTCTT
TTGGCTCTAGGTGAGTTGTCATGTGGGTAAGTTGAGGTTATCTTGGGATAAAGGGTCTTCTAGGGCACAAAACTC
ACTCTAGGTTTATATTGTATGTAGCTTATATTTTTTACTAAGGTGTCACCTTATAAGCATCTATAAATTGACTTC
TTTTTCTTAGTTGTATGGCCAGGCAGTCCCCATTTTAGGAGTTGGCTTCTGCAAATTCAATCCATTGAGCTAACT
GTTGGGGAGCAATTTGGTAGTTGTAGACATTTGCAGGGAAGGGAGATGTCTGATTCTAAATGGGAGTTGATGCTC
AGGTCCCCAGCCAGGTTTGCATCCAGCCCTGAGACATGTAGGAAACACCTTTCAGACCCAGGCTCTGAAGATTCC
CAGAAGCCACAAGGATTGAAGGGAAAAGGTGATCCTGGTAACTGTTCCAGGATTGCTCCAGGTTTGAGATGGTAT
TGCTAAATTTAAAATTAAACAAGAAACCCAACAACAGCTTTTAAAGTGTCTTCTATCTCATTGTATTTTTTTAA
CTTGCCCCAATGATAGAAAAGTCTTTTGCTGAAATGATTTTGATGATTTTTGTTTATCGTTTATAAAAAGGAAAA
GAAATATACAAACTTTGACTTTTGTGAAAAAAAAAAAAAAAAAAAAA
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FIGURE 4932

MAEVEDQAARDMKRLEEKDKERKNVKGIRDDIEEEDDQEAYFRYMAENPTAGVVQEEEEDNLEYDSDGNPIAPTK
KIIDPLPPIDHSEIDYPPFEKNFYNEHEEITNLTPQQLIDLRHKLNLRVSGAAPPRPGSSFAHFGFDEQLMHQIR
KSEYTQPTPIQCQGVPVALSGRDMIGIAKTGSGKTAAFIWPMLIHIMDQKELEPGDGPIAVIVCPTRELCQQIHA
ECKRFGKAYNLRSVAVYGGGSMWEQAKALQEGAEIVVCTPGRLIDHVKKKATNLQRVSYLVFDEADRMFDMGFEY
QVRSIASHVRPDRQTLLFSATFRKKIEKLARDILIDPIRVVQGDIGEANEDVTQIVEILHSGPSKWNWLTRRLVE
FTSSGSVLLFVTKKANAEELANNLKQEGHNLGLLHGDMDQSERNKVISDFKKKDIPVLVATDVAARGLDIPSIKT
VINYDVARDIDTHTHRIGRTGRAGEKGVAYTLLTPKDSNFAGDLVRNLEGANQHVSKELLDLAMQNAWFRKSRFK
GGKGKKLNIGGGGLGYRERPGLGSENMDRGNNNVMSNYEAYKPSTGAMGDRLTAMKAAFQSQYKSHFVAASLSNQ
KAGSSAAGASGWTSAGSLNSVPTNSAQQGHNSPDSPVTSAAKGIPGFGNTGNISGAPVTYPSAGAQGVNNTASGN
NSREGTGGSNGKRERYTENRGSSPSQSRRDWQSA

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FIGURE 4933

CCGCCGCCCGGGCCCCCGGCATGCAGCCCCGGCTGCGGAGGTGACACTCACGGACCTTAGCCACCGCCGCCGCCA
TCGCCACC**ATG**GACGAACAGGAGGCATTGAACTCAATCATGAACGATCTGGTGGCCCTCCAGATGAACCGACGTC
ACCGGATGCCTGGATATGAGACCATGAAGAACAAAGACACAGGTCACTCAAATAGGCAGAGTGACGTCAGAATCA
AGTTCGAGCACAACGGGGAGAGGCGAATTATAGCGTTCAGCCGGCCTGTGAAATATGAAGATGTGGAGCACAAGG
TGACAACAGTATTTGGACAACCTCTTGATCTACATTACATGAACAATGAGCTCTCCATCCTGCTGAAAAACCAAG
ATGATCTTGATAAAGCAATTGACATTTTAGATAGAAGCTCAAGCATGAAAAGCCTTAGGATATTGCTGTTGTCCC
AGGACAGAAACCATAACAGTTCCTCTCCCCACTCTGAGGTGTCCAGACAGGTGCGGATCAAGGCTTCCCAGTCCG
CAGGGGATATAAATACTATCTACCAGCCCCCCGAGCCCAGAAGCAGGCACCTCTCTGTCAGCTCCCAGAACCCTG
GCCGAAGCTCACCTCCCCCTGGCTATGTTCCTGAGCGGCAGCAGCACATTGCCCGGCAGGGGTCCTACACCAGCA
TCAACAGTGAGGGGGAGTTCATCCCAGAGACCAGCGAGCAGTGCATGCTGGATCCCCTGAGCAGTGCAGAAAATT
CCTTGTCTGGAAGCTGCCAATCCTTGGACAGGTCAGCAGACAGCCCATCCTTCCGGAAATCACGAATGTCCCGTG
CCCAGAGCTTCCCTGACAACAGACAGGAATACTCAGATCGGGAAACTCAGCTTTATGACAAAGGGGTCAAAGGTG
GAACCTACCCCCGGCGCTACCACGTGTCTGTGCACCACAAGGACTACAGTGATGGCAGAAGAACATTTCCCCGAA
TACGGCGTCATCAAGGCAACTTGTTCACCCTGGTGCCCTCCAGCCGCTCCCTGAGCACAAATGGCGAGAACATGG
GTCTGGCTGTGCAATACCTGGACCCCCGTGGGCGCCTGCGGAGTGCGGACAGCGAGAATGCCCTCTCTGTGCAGG
AGAGGAATGTGCCAACCAAGTCTCCCAGTGCCCCCATCAACTGGCGCCGGGGAAAGCTCCTGGGCCAGGGTGCCT
TCGGCAGGGTCTATTTGTGCTATGACGTGGACACGGGACGTGAACTTGCTTCCAAGCAGGTCCAATTTGATCCAG
ACAGTCCTGAGACAAGCAAGGAGGTGAGTGCTCTGGAGTGCGAGATCCAGTTGCTAAAGAACTTGCAGCATGAGC
GCATCGTGCAGTACTATGGCTGTCTGCGGGACCGCGCTGAGAAGACCCTGACCATCTTCATGGAGTACATGCCAG
GGGGCTCGGTGAAAGACCAGTTGAAGGCTTACGGTGCTCTGACAGAGAGCGTGACCCGAAAGTACACGCGGCAGA
TCCTGGAGGGCATGTCCTACCTGCACAGCAACATGATTGTTCACGGGACATTAAGGGAGCCAACATCCTCCGAG
ACTCTGCTGGGAATGTAAAGCTGGGGGACTTTGGGGCCAGCAAACGCCTGCAGACGATCTGTATGTCGGGGACGG
GCATGCGCTCCGTCACTGGCACACCCTACTGGATGAGCCCTGAGGTGATCAGCGGCGAGGGCTATGGAAGGAAAG
CAGACGTGTGGAGCCTGGGCTGCACTGTGGTGGAGATGCTGACAGAGAAACCACCGTGGGCAGAGTATGAAGCTA
TGGCCGCCATCTTCAAGATTGCCACCCAGCCCACCAATCCTCAGCTGCCCTCCCACATCTCTGAACATGGCCGGG
ACTTCCTGAGGCGCATTTTTGTGGAGGCTCGCCAGAGACCTTCAGCTGAGGAGCTGCTCACACACCACTTTGCAC
AGCTCATGTAC**TGA**GCTCTCACGGCCACACAGCTGCCGGTCGCCCTTTGCTGCATGGCAGGGGGCTGCTGCTGGG
CTCAGTGAAGTTGCTGCTTCTCCCAGGCAAGGCTGTGGACCATGGAGTGGCAGCCCAGCCAGCGTCGGTCTGTGC
CCCTTCCGCCACTGGGGCTCAGAGCCGGGGTGGGGTGGCTGCAGCCTCAGGACTGGGAGCCCCCAGCCTGTCAGA
TCCAGGAGCTCCAGTGTCCTGAGCTCAGCGTGGAGGGGTAGGGGCTGGGAACAGTGTGCAAGGCAGCCGTGGGCC
CCACCCTCGGGGATGTGTCCTGACACTGCAATTGGCACCGAAGCCCAGAGGGTCTGGGGGCACAAGACTGACGCC
AGGGTATGAAGAGTGTTATTTTCATTCAAAGTGTTATTTTGTTTTTCCTTCCAATGTCTGGAGACCACCAGGGCA
TCTCTGGGCTGGATGAGCTCCCACAAGCCTGAGGGAAAGGCCAGCACTCGCTAGCAGTGGCAGGCAGAGGCCCAG
GCTGCCGTCCCCTAGAGTCCCAGGTTGGCTCTGCCAGTCCTGTCCTTTACCAAAGATGAATGAAGCAAATGTCAT
GCTGCCTTATTCAGGGAAGGAGGAGCCTGTCCTGCCTGTGGCCATGACCCTGCCTCTCCCAGGCAGGGGCCCGCG
ATGTGGAACTGCTGCCACTGAGGGGGGATCCAGTTTTGTCAATGCAGTTGTCTCTGTTTTACAAGTTGGAGTCAC
TCTTATGCTGTACCCAGTTTCTAAACTGGAGACTGTGTGTGCCCTCTGGGCTCTGAGTACCCCTGCTTTGGGCTT
GGGCCTAGGCTGCATTGAAAAGAGCTGAAGGTTGTGGCCTTTGCGCTCCTGGCCCAGCCTTTGTTCCCCACTGGA
GCAGAAGGGGAGATGGACGACACGGTGGGGGCATCGGCCTGGCCAGTGCCCTGATCCCAGAGAGCCCGAGGAGG
TGTCTCAGGCTGCCTGAGTCGTGACCTGCTAGGCCAGAGCCCACTCCATCTGGTAGAAGGGAAAGCCCATATGCT
ACCACCAGCTGTGTCCAAAACCGCCAGCTCTGTTCTTCCTCAGCCAGCCTCGCCCATCCCCTTGAGGTCTCAGCC
CCTTTCCCTTGTAGCTCCTCCCCTGGAGGGGGAATGGCAGCAGGGGTTGGGGAAACAGCATCTCCAAGCAGCTTA
GAGTTGGCCATATTTACCTCAGCCTGGGCGCTGGTCCTTTCTTCCGGCCCCTCCCCTCCAAAATGTGCCTATTGC
TAGAGCTCCTCCCTCTCAACACCCAGTTTCCTTGGGAGTTGTCATTAAAGGAAAAAAAAAAAAAAAAAAAAA

FIGURE 4934

MDEQEALNSIMNDLVALQMNRRHRMPGYETMKNKDTGHSNRQSDVRIKFEHNGERRIIAFSRPVKYEDVEHKVTT
VFGQPLDLHYMNNELSILLKNQDDLDKAIDILDRSSSMKSLRILLLSQDRNHNSSSPHSEVSRQVRIKASQSAGD
INTIYQPPEPRSRHLSVSSQNPGRSSPPPGYVPERQQHIARQGSYTSINSEGEFIPETSEQCMLDPLSSAENSLS
GSCQSLDRSADSPSFRKSRMSRAQSFPDNRQEYSDRETQLYDKGVKGGTYPRRYHVSVHHKDYSDGRRTFPRIRR
HQGNLFTLVPSSRSLSTNGENMGLAVQYLDPRGRLRSADSENALSVQERNVPTKSPSAPINWRRGKLLGQGAFGR
VYLCYDVDTGRELASKQVQFDPDSPETSKEVSALECEIQLLKNLQHERIVQYYGCLRDRAEKTLTIFMEYMPGGS
VKDQLKAYGALTESVTRKYTRQILEGMSYLHSNMIVHRDIKGANILRDSAGNVKLGDFGASKRLQTICMSGTGMR
SVTGTPYWMSPEVISGEGYGRKADVWSLGCTVVEMLTEKPPWAEYEAMAAIFKIATQPTNPQLPSHISEHGRDFL
RRIFVEARQRPSAEELLTHHFAQLMY

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FIGURE 4935

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AGAAGGAGGCCCCAACCCTGAGCACAACAGCAACCTGGCCAATATCTTAGAGGTGTGTCGCAGCAAACATATGCC
CAAGTCAACGATTGAGACAGCACTGAAAATGGAGAAATCCAAGGACACTTATTTGCTGTATGAGGGTCGAGGCCC
TGGTGGCTCTTCTCTGCTCATCGAGGCATTATCTAACAGTAGCCACAAGTGCCAAGCAGACATTAGACATATCCT
GAATAAGAATGGAGGAGTGATGGCTGTAGGAGCTCGTCACTCTTTTGACAAAAAGGGGGTGATTGTGGTTGAAGT
GGAGGACAGAGAGAAGAAGGCTGTGAACCTAGAGCGTGCCCTGGAGATGGCAATCGAAGCAGGAGCTGAGGATGT
CAAGGAAACTGAAGATGAAGAAGAAAGGAACGTTTTTAAATTTATTTGTGATGCCTCTTCACTGCACCAAGTGAG
GAAGAAGCTGGACTCCCTGGGCCTGTGTTCTGTGTCCTGTGCACTAGAGTTCATCCCCAACTCAAAGGTGCAGCT
GGCTGAGCCCGACCTGGAACAGGCCGCACATCTCATTCAGGCTCTCAGCAACCACGAGGATGTGATTCACGTCTA
TGATAACATTGAATAACCAGGCTACATGTGCCCCCGGGTTCCTTCCTAGAAATGTGGCAGCCCATTCCAGCACAC
AGGCTTCTGCAGCAATCTCTGAGGGTAAAGCCGGTGGGAGGCTCAGCAGGCCAGGAGGCCCAAGGACAGGACTTG
CGACCTTGAAGCCAAAGGAATCTCACTTGTGGGGCCTCCTTGTCAGCTCTGCTGCTGTCTCAGAGCCATCTGGAT
GAGTGTCCCGACACCCTCTCGGATGCAGGGCAGGACCACCCAGCTGGTCAGACTCTGATGTTGGGTAGCTGGCCT
CTGTGGGGATTGTAAGTGCCCTGAGGCGCTCTGTACTAGAAACTGCTCTTAATAATAACGGTGATTATTGGTTGC
TGC
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FIGURE 4936A

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CGGAGGAGGACGCGAGCCCCTTGCGGGCGGTCATCACAGCCCAGCCTCGGGGCTGCCACAGCGCGTTGCGCCTGT
GCGCCCTCGGTCCCCGCGTCCACTGAGCGCCGCGCTCGGGGATGGGGCCCGGCCGGCCGGCCCCCGCGCCCTGGC
CTCGTCACCTGCTGCGCTGCGTCCTGCTCCTCGGGTGCCTGCACCTCGGCCGTCCCGGCGCCCCTGGGGACGCCG
CCCTCCCGGAACCCAACGTCTTCCTCATCTTCAGCCATGGACTGCAGGGCTGCCTGGAGGCCCAGGGCGGGCAGG
TCAGAGTCACCCCGGCTTGCAATACCAGCCTCCCTGCCCAGCGCTGGAAGTGGGTCTCCCGAAACCGGCTATTCA
ACCTGGGTACCATGCAGTGCCTGGGCACAGGCTGGCCAGGCACCAACACCACGGCCTCCCTGGGCATGTATGAGT
GTGACCGGGAAGCACTGAATCTTCGCTGGCATTGTCGTACACTGGGTGACCAGCTGTCCTTGCTCCTGGGGGCCC
GCACCAGCAACATATCCAAGCCTGGCACCCTTGAGCGTGGTGACCAGACCCGCAGTGGCCAGTGGCGCATCTACG
GCAGCGAGGAGGACCTATGTGCTCTGCCCTACCACGAGGTCTACACCATCCAGGGAAACTCCCACGGAAAGCCGT
GCACCATCCCCTTCAAATATGACAACCAGTGGTTCCACGGCTGCACCAGCACGGGCCGCGAGGATGGTCACCTGT
GGTGTGCCACCACCCAGGACTACGGCAAAGACGAGCGCTGGGGCTTCTGCCCCATCAAGAGTAACGACTGCGAGA
CCTTCTGGGACAAGGACCAGCTGACTGACAGCTGCTACCAGTTTAACTTCCAGTCCACGCTGTCGTGGAGGGAGG
CCTGGGCCAGCTGCGAGCAGCAGGGTGCGGATCTGCTGAGCATCACGGAGATCCACGAGCAGACCTACATCAACG
GCCTCCTCACTGGGTACAGCTCCACCCTGTGGATCGGCTTGAATGACTTGGACACGAGCGGAGGCTGGCAGTGGT
CGGACAACTCGCCCCTCAAGTACCTCAACTGGGAGAGTGACCAGCCGGACAACCCCAGTGAGGAGAACTGTGGAG
TGATCCGCACTGAGTCCTCGGGCGGCTGGCAGAACCGTGACTGCAGCATCGCGCTGCCCTATGTGTGCAAGAAGA
AGCCCAACGCCACGGCCGAGCCCACCCCTCCAGACAGGTGGGCCAATGTGAAGGTGGAGTGCGAGCCGAGCTGGC
AGCCCTTCCAGGGCCACTGCTACCGCCTGCAGGCCGAGAAGCGCAGCTGGCAGGAGTCCAAGAAGGCATGTCTAC
GGGGCGGTGGCGACCTGGTCAGCATCCACAGCATGGCGGAGCTGGAATTCATCACCAAGCAGATCAAGCAAGAGG
TGGAGGAGCTGTGGATCGGCCTCAACGATTTGAAACTGCAGATGAATTTTGAGTGGTCTGACGGGAGCCTTGTGA
GCTTCACCCACTGGCACCCCTTTGAGCCCAACAACTTCCGGGACAGTCTGGAGGACTGTGTCACCATCTGGGGCC
CGGAAGGCCGCTGGAACGACAGTCCCTGTAACCAGTCCTTGCCATCCATCTGCAAGAAGGCAGGCCAGCTGAGCC
AGGGGGCCGCCGAGGAGGACCATGGCTGCCGGAAGGGTTGGACGTGGCACAGCCCATCCTGCTACTGGCTGGGAG
AAGACCAAGTGACCTACAGTGAGGCCCGGCGCCTGTGCACTGACCATGGCTCTCAGCTGGTCACCATCACCAACA
GGTTCGAGCAGGCCTTCGTCAGCAGCCTCATCTACAACTGGGAGGGCGAGTACTTCTGGACGGCCCTGCAGGACC
TCAACAGCACCGGCTCCTTCTTCTGGCTCAGTGGGGATGAAGTCATGTACACCCACTGGAACCGGGACCAGCCCG
GGTACAGCCGTGGGGGCTGCGTGGCGCTGGCCACTGGCAGCGCCATGGGGCTGTGGGAGGTGAAGAACTGTACCT
CGTTCCGGGCCCGCTACATCTGCCGGCAGAGCCTGGGCACTCCAGTGACGCCGGAGCTGCCGGGGCCAGATCCCA
CGCCCAGCCTCACTGGCTCCTGTCCCCAGGGCTGGGCCTCGGACACCAAACTCCGGTATTGCTATAAGGTGTTCA
GCTCAGAGCGGCTGCAGGACAAGAAGAGCTGGGTCCAGGCCCAGGGGGCCTGCCAGGAGCTGGGGGCCCAGCTGC
TGAGCCTGGCCAGCTACGAGGAGGAGCACTTTGTGGCCAACATGCTCAACAAGATCTTCGGTGAATCAGAACCCG
AGATCCACGAGCAGCACTGGTTCTGGATCGGCCTGAACCGTCGGGATCCCAGAGGGGGTCAGAGTTGGCGCTGGA
GCGACGGCGTAGGGTTCTCTTACCACAATTTCGACCGGAGCCGGCACGACGACGACGACATCCGAGGCTGTGCGG
TGCTGGACCTGGCCTCCCTGCAGTGGGTGGCCATGCAGTGCGACACACAGCTGGACTGGATCTGCAAGATCCCCA
GAGGTACGGACGTGCGGGAGCCCGACGACAGCCCTCAAGGCCGACGGGAATGGCTGCGCTTCCAGGAGGCCGAGT
ACAAGTTCTTTGAGCACCACTCCACGTGGGCGCAGGCGCAGCGCATCTGCACGTGGTTCCAGGCCGAGCTGACCT
CCGTGCACAGCCAGGCAGAGCTAGACTTCCTGAGCCACAACTTGCAGAAGTTCTCCCGGGCCCAGGAGCAGCACT
GGTGGATCGGCCTGCACACCTCTGAGAGCGATGGGCGCTTCAGATGGACAGATGGTTCCATTATAAACTTCATCT
CCTGGGCACCAGGCAAACCTCGGCCTGTCGGCAAGGACAAGAAGTGCGTGTACATGACAGCCAGCCGAGAGGACT
GGGGGGGACCAGAGGTGCCTGACAGCCTTGCCCTACATCTGCAAGCGCAGCAACGTCACCAAAGAAACGCAGCCCC
CAGACCTGCCAACTACAGCCCTGGGGGGCTGCCCCTCTGACTGGATCCAGTTCCTCAACAAGTGTTTTCAGGTCC
AGGGCCAGGAACCCCAGAGCCGGGTGAAGTGGTCAGAGGCACAGTTCTCCTGTGAACAGCAAGAGGCCCAGCTGG
TCACCATCACAAACCCCTTAGAGCAAGCATTCATCACAGCCAGCCTGCCCAATGTGACCTTTGACCTTTGGATTG
GCCTCCATGCCTCGCAGAGGGACTTCCAGTGGGTGGAGCAGGAGCCTTTGATGTATGCCAACTGGGCACCTGGGG
AGCCCTCTGGCCCTAGCCCTGCTCCCAGTGGCAACAAACCGACCAGCTGTGCGGTGGTCCTGCACAGCCCCTCAG
CCCACTTCACTGGCCGCTGGGACGATCGGGAGCTGCACGGAGGAGACCCATGGCTTCATCTGCCAGAAGGGCACGG
ACCCCTCCCTGAGCCCGTCCCCAGCAGCGCTGCCCCCCGCCCCGGGCACTGAGCTCTCCTACCTCAACGGCACCT
TCCGGCTGCTTCAGAAGCCGCTGCGCTGGCACGATGCCCTCCTGCTGTGTGAGAGCCACAATGCCAGCCTGGCCT
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FIGURE 4936B

ACGTGCCCGACCCCTACACCCAGGCCTTCCTCACGCAGGCTGCCCGAGGGCTGCGCACGCCGCTCTGGATTGGGC
TGGCTGGCGAGGAGGGCTCTCGGCGGTACTCCTGGGTCTCAGAGGAGCCGCTGAACTACGTGGGCTGGCAGGACG
GGGAGCCGCAGCAGCCGGGGGGGCTGTACCTACGTAGATGTGGACGGGGCCTGGCGCACCACCAGCTGTGACACCA
AGCTGCAGGGGGCTGTGTGTGGGGTTAGCAGTGGGCCCCCTCCTCCCCGAAGAATAAGCTACCATGGCAGCTGTC
CCCAGGGACTGGCAGACTCCGCGTGGATTCCCTTCCGGGAGCACTGCTATTCTTTCCACATGGAGCTGCTGCTGG
GCCACAAGGAGGCGCGACAGCGCTGCCAGAGAGCGGGTGGGGCCGTCCTGTCTATCCTGGATGAGATGGAGAATG
TGTTTGTCTGGGAGCACCTGCAGAGCTATGAGGGCCAGAGTCGGGGCGCCTGGCTGGGCATGAACTTCAACCCCA
AAGGAGGCACTCTGGTCTGGCAGGACAACACAGCTGTGAACTACTCCAACTGGGGGCCCCCGGGCTTGGGCCCCA
GCATGCTGAGCCACAACAGCTGCTACTGGATTCAGAGCAACAGCGGGCTATGGCGCCCCGGCGCTTGCACCAACA
TCACCATGGGTGTCGTCTGCAAGCTTCCTCGTGCTGAGCAGAGCAGCTTCTCCCCATCAGCGCTTCCAGAGAACC
CAGCGGCCCTGGTGGTGGTGCTGATGGCGGTGCTGCTGCTCCTGGCCTTGCTGACCGCAGCCCTCATCCTTTACC
GGAGGCGCCAGAGCATCGAGCGCGGGGCCTTTGAGGGTGCCCGCTACAGCCGCAGCAGCTCCAGCCCCACCGAGG
CCACTGAGAAGAACATCCTGGTGTCAGACATGGAAATGAATGAGCAACAAGAA**TAG**AGCCAGGCGCGTGGGCAGG
GCCAGGGCGGGAGGAGCTGGGGAGCTGGGGCCCTGGGTCAGTCTGGCCCCCCACCAGCTGCCTGTCCAGTTGGCC
TATGGAAGGGTGCCCTTGGGAGTCGCTGTTGGGAGCCGGAGCTGGGCAGAGCCTGGGCTGGTGGGGTGCCACCCT
CCCACAAGGGCTGGGCTGAGACCCAGCTGAGTGCAGCGTGGCGTTTCCCTTTCTGGGGGGGCCTGAGGTCTTGTC
ACCTGGTCCTGTGCCCCCACAGGAACCAGAGGTAGGATGGGAGGGGGAACGAGAGCCTCTTTCTCCCCAGAGCCC
CCGGCCCAGGCCTGTTGATCCGCGCCCCAGGACCCCCTTCTTTGCAGAGCCCGAGGAGCCTCCCCTGTCCCCTCG
GGCAGATCTGTTGTGTCTCTCTTCCCACCTGGCAGCCTCAGCTCTGTGCCCCTCACCCTGCTCCCTCTCGCCCCT
TCTCTCCCACCCCTTCCTTCTGAGCCGGGCCCTGGGGATTGGGGAGCCCTCTTGTTCCTGATGAGGGTCAGCTGA
GGGGGCTGAGCATCCATCACTCCTGTGCCTGCTGGGGTGGCTGTGGGGCGTGGCAGGAGGGGCCTAGGTGGGTTG
GGCCTGAGAACCAGGGCACGGGTGTGGTGTCTGCTGGGCTGGAGATAAGACTGGGGAGAGACACCCCAACCTCCC
AGGGTGGGAGCTGGGCCGGGCTGGGATGTCATCTCCTGCCGGGCGGGGGAGGGCTCTGCCCCTGGAAGAGTCCCC
TGTGGGGACCAAAATAAGTTCCCTAACATCTCCAGCTCCTGGCTCTGGTTTGGAGCAAGGGGAAGGGTTGCCAGA
GTCCTGGGGGCCCCAGAGGAGCAGGAGTCTGGGAGGGCCCAGAGTTCACCCTCTAGTGGATCCAGGAGGAGCAGC
ACCCGAGCCCTGGAGTGGCCCAGTACCCTTCCAAGAGGCCACAGTCCCAGCCAGGACAAAGTATGCGGCCCATCC
TGGTGCGACAGCGTGGGACAATGTGAACATGGACTCGAAGACATGGCCCTTTCTCTGTAGTTGATTTTTTAAATG
TGCCATTATTGTTTTT

· FIGURE 4937

MGPGRPAPAPWPRHLLRCVLLLGCLHLGRPGAPGDAALPEPNVFLIFSHGLQGCLEAQGGQVRVTPACNTSLPAQ
RWKWVSRNRLFNLGTMQCLGTGWPGTNTTASLGMYECDREALNLRWHCRTLGDQLSLLLGARTSNISKPGTLERG
DQTRSGQWRIYGSEEDLCALPYHEVYTIQGNSHGKPCTIPFKYDNQWFHGCTSTGREDGHLWCATTQDYGKDERW
GFCPIKSNDCETFWDKDQLTDSCYQFNFQSTLSWREAWASCEQQGADLLSITEIHEQTYINGLLTGYSSTLWIGL
NDLDTSGGWQWSDNSPLKYLNWESDQPDNPSEENCGVIRTESSGGWQNRDCSIALPYVCKKKPNATAEPTPPDRW
ANVKVECEPSWQPFQGHCYRLQAEKRSWQESKKACLRGGGDLVSIHSMAELEFITKQIKQEVEELWIGLNDLKLQ
MNFEWSDGSLVSFTHWHPFEPNNFRDSLEDCVTIWGPEGRWNDSPCNQSLPSICKKAGQLSQGAAEEDHGCRKGW
TWHSPSCYWLGEDQVTYSEARRLCTDHGSQLVTITNRFEQAFVSSLIYNWEGEYFWTALQDLNSTGSFFWLSGDE
VMYTHWNRDQPGYSRGGCVALATGSAMGLWEVKNCTSFRARYICRQSLGTPVTPELPGPDPTPSLTGSCPQGWAS
DTKLRYCYKVFSSERLQDKKSWVQAQGACQELGAQLLSLASYEEEHFVANMLNKIFGESEPEIHEQHWFWIGLNR
RDPRGGQSWRWSDGVGFSYHNFDRSRHDDDDIRGCAVLDLASLQWVAMQCDTQLDWICKIPRGTDVREPDDSPQG
RREWLRFQEAEYKFFEHHSTWAQAQRICTWFQAELTSVHSQAELDFLSHNLQKFSRAQEQHWWIGLHTSESDGRF
RWTDGSIINFISWAPGKPRPVGKDKKCVYMTASREDWGDQRCLTALPYICKRSNVTKETQPPDLPTTALGGCPSD
WIQFLNKCFQVQGQEPQSRVKWSEAQFSCEQQEAQLVTITNPLEQAFITASLPNVTFDLWIGLHASQRDFQWVEQ
EPLMYANWAPGEPSGPSPAPSGNKPTSCAVVLHSPSAHFTGRWDDRSCTEETHGFICQKGTDPSLSPSPAALPPA
PGTELSYLNGTFRLLQKPLRWHDALLLCESHNASLAYVPDPYTQAFLTQAARGLRTPLWIGLAGEEGSRRYSWVS
EEPLNYVGWQDGEPQQPGGCTYVDVDGAWRTTSCDTKLQGAVCGVSSGPPPPRRISYHGSCPQGLADSAWIPFRE
HCYSFHMELLLGHKEARQRCQRAGGAVLSILDEMENVFVWEHLQSYEGQSRGAWLGMNFNPKGGTLVWQDNTAVN
YSNWGPPGLGPSMLSHNSCYWIQSNSGLWRPGACTNITMGVVCKLPRAEQSSFSPSALPENPAALVVVLMAVLLL
LALLTAALILYRRRQSIERGAFEGARYSRSSSSPTEATEKNILVSDMEMNEQQE

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FIGURE 4938

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GGAGCCGCGCCGCATCTCAGGCGCAGTCTCTAGGGGCTGTGCGCATCCGTGGGGGGGACATGCGCATCTCAGGGG
GGCTGCTCGCATCTGGGGGTGCTGTGTGCATCTCGGGGGGGCTGTGCCCATCTAGCGGGGTGGCTGTGCGCATCT
GGAGGGGGCTGTGCGCAACCCGGGGGGGGGTGTTGCGCGCATCTAGCAGGGGCGGCTGTGCGCATTTCGGGGGGGG
CTGTGCATATCTGGGGGGGACCGTGCTTATCTCCGGGGGCGGCTGTGCGCATCTTGAGGGGTGTGTACATCTCGGG
GGGCCTGTGCGCATCTTGGGGGGCTGTGTGCATCCGCGGGGGCTGTGCGCATCTCGGGGTGCTGTGCGCTGCTCC
TCTGAGCTCTGCTCTTTCTTGCAGCGTTTGCCTCAGCATGGAGGGCGGGGCCGCGGCAGCCACCCCCACAGCACT
GCCTTACTACGTGGCCTTCTCCCAGCTGCTGGGCCTGACCTTGGTGGCCATGACCGGCGCGTGGCTCGGGCTGTA
CCGAGGCGGCATTGCCTGGGAGAGCGACCTGCAGTTCAACGCGCACCCCCTCTGCATGGTCATAGGCCTGATCTT
CCTGCAGGGAAATGCCCTGCTGGTTTACCGTGTCTTCAGGAACGAAGCTAAACGCACCACCAAGGTCCTGCACGG
GCTGCTGCACATCTTTGCGCTCGTCATCGCCCTGGTTGGCTTGGTGGCGGTGTTCGACTACCACAGGAAGAAGGG
CTACGCTGACCTGTACAGCCTACACAGCTGGTGCGGGATCCTTGTCTTTGTCCTGTACTTTGTGCAGTGGCTGGT
GGGCTTCAGCTTCTTCCTGTTCCCCGGAGCTTCATTCTCCCTGCGGAGCCGCTACCGCCCACAGCACATCTTCTT
TGGTGCTACCATCTTCCTCCTTTCCGTGGGCACCGCCCTGCTGGGCCTGAAGGAGGCACTGCTGTTCAACCTCGG
GGGCAAGTATAGCGCATTTGAGCCCGAGGGTGTCCTGGCCAACGTGCTGGGCCTGCTGCTGGCCTGCTTCGGTGG
GGCGGTGCTCTACATCTTGACCCGGGCCGACTGGAAGCGGCCTTCCCAGGCGGAAGAGCAGGCCCTCTCCATGGA
CTTCAAGACGCTGACGGAGGGAGATAGCCCCGGCTCCCAGTGATGCGCCCGGCCGGCCCTGGGGGTTCGCGGGGT
GTCTTCTTGCCTGCCCCTGCTGAGGCGTCTTCAGGACTGCAGGCTCCGGAGAGTGGCTCTGGCAGCAGGCGGGCG
CGTGGGTGCAGCTGCATCTGTTTGAGTGCTGCTTTCTGGGGTCAGGTCTCCGCCTCCTCTGCTTCTCCTTTCTCC
GCTGCTATAGACCAGTTCATTGTGTGTGGCTCCCGTGTCTCTGTTGCCCCCTTCAGTGCAGAAGGCTTTGGGTAG
GACTTCGGGTGTTCGGTCCTGGTCGCAGAGCACAGATCTTTAAAGAAGCGAGAGAGGAGGCCCCACCCTCCTGGC
AGCAGATGCCTGGGGCAAGGCCAGGGGAAACTGGGGGGGGCCTCAGGGACAGGCCTGGAAAGGCCACGATGGCTGC
TGAATTCAAACAAGGAGTCCCTCCAGCCTGAATAACACGTGGCACAAATGGGCCCGGCCTTTGGCAGAGGAGCAA
GTGATATGATGTGTAAAGTATGTTGGTGGTGAAAGCAAGGTTCCCCAGGAGAGGGGAGGGACTGGCCCCTGGGAA
GCTCTGAGATGAGGCTGTGGCCCAGCTGTAGTCCTGACCTTCCTCTTCTTTAACCCTTTAGCCCTAGGATGGCTT
TGGTGGGAGAGGGGATAGAAGCCCATGACTTCAGACAGACTTTCTCTTGGCAGATGCAGGCGGGCCTCCTCCCAG
GCTGCTCCAGACATGGGGGTTGGGGATGGGGGGCACCTTGCAGCCCCTTCCTGCTGGGGCTCCCTCCTTGTAGCA
CCCCCCTTGCGGCTCAGCTCTGGTTTCCTCTCCCAGGCTCACCCAGGCTCTGCTCAGGCTGGGAGGCAGAGGGCA
CAAACCTTATAATTTTTTAAATGAAAAACCGCTGCTGCTGGCTGTGGCTAGAGCCCCCTGGGGCTGCTGGAGCTG
CTGCCTCTGTTCTGGAGGACGAGCCTTCTCCTTATCTGCTGCCCATCTTTCCAGGAAGTCAGGATGGAGTCAGAA
CAACTACAGTCATCCCCCGTGGTGTCTGCACATCACTCCAGCCCCATAAAGAGTGTCATGTTAGCTGAGTCACCA
TTTGGCTTCGGCCTGGAAATAGTGTGATTAGAACACTGATCGTGTGCGAGGCCAGGAGATCAAGACCATCCTGAC
TAACAAACACAGTGAAACCCCGTCTCTACTAAAAATACAAAAAAATTAGCCAGGCGTGGTGGTGGGCGCCTGTAG
TCCCAGCTACTTGGGAG
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FIGURE 4939

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AGTATGTGTGGTTGGGGAATTCATGTGGAGGTCAGAGTGGAAGCAGGTGTGAGAGGGTCCAGCAGAAGGAAACAT
GGCTGCCAAAGTGTTTGAGTCCATTGGCAAGTTTGGCCTGGCCTTAGCTGTTGCAGGAGGCGTGGTGAACTCTGC
CTTATATAATGTGGATGCTGGGCACAGAGCTGTCATCTTTGACCGATTCCGTGGAGTGCAGGACATTGTGGTAGG
GGAAGGGACTCATTTTCTCATCCCGTGGGTACAGAAACCAATTATCTTTGACTGCCGTTCTCGACCACGTAATGT
GCCAGTCATCACTGGTAGCAAAGATTTACAGAATGTCAACATCACACTGCGCATCCTCTTCCGGCCTGTCGCCAG
CCAGCTTCCTCGCATCTTCACCAGCATCGGAGAGGACTATGATGAGCGTGTGCTGCCGTCCATCACAACTGAGAT
CCTCAAGTCAGTGGTGGCTCGCTTTGATGCTGGAGAACTAATCACCCAGAGAGAGCTGGTCTCCAGGCAGGTGAG
CGACGACCTTACAGAGCGAGCCGCCACCTTTGGGCTCATCCTGGATGACGTGTCCTTGACACATCTGACCTTCGG
GAAGGAGTTCACAGAAGCGGTGGAAGCCAAACAGGTGGCTCAGCAGGAAGCAGAGAGGGCCAGATTTGTGGTGGA
AAAGGCTGAGCAACAGAAAAAGGCGGCCATCATCTCTGCTGAGGGCGACTCCAAGGCAGCTGAGCTGATTGCCAA
CTCACTGGCCACTGCAGGGGATGGCCTGATCGAGCTGCGCAAGCTGGAAGCTGCAGAGGACATCGCGTACCAGCT
CTCACGCTCTCGGAACATCACCTACCTGCCAGCGGGGCAGTCCGTGCTCCTCCAGCTGCCCCAGTGAGGGCCCAC
CCTGCCTGCACCTCCGCGGGCTGACTGGGCCACAGCCCCGATGATTCTTAACACAGCCTTCCTTCTGCTCCCACC
CCAGAAATCACTGTGAAATTTCATGATTGGCTTAAAGTGAAGGAAATAAAGGTAAAATCACTTCAGATCTCTAAT
TAGTCTATCAAATGAAACTCTTTCATTCTTCTCACATCCATCTACTTTTTTATCCACCTCCCTACCAAAAATTGC
CAAGTGCCTATGCAAACCAGCTTTAGGTCCCAATTCGGGGCCTGCTGGAGTTCCGGCCTGGGCACCAGCATTTGG
CAGCACGCAGGCGGGGCAGTATGTGATGGACTGGGGAGCACAGGTGTCTGCCTAGATCCACGTGTGGCCTCCGTC
CTGTCACTGATGGAAGGTTTGCGGATGAGGGCATGTGCGGCTGAACTGAGAAGGCAGGCCTCCGTCTTCCCAGCG
GTTCCTGTGCAGATGCTGCTGAAGAGAGGTGCCGGGGAGGGGCAGAGAGGAAGTGGTCTGTCTGTTACCATAAGT
CTGATTCTCTTTAACTGTGTGACCAGCGGAAACAGGTGTGTGTGAACTGGGCACAGATTGAAGAATCTGCCCCTG
TTGAGGTGGGTGGGCCTGACTGTTGCCCCCCAGGGTCCTAAAACTTGGATGGACTTGTATAGTGAGAGAGGAGGC
CTGGACCGAGATGTGAGTCCTGTTGAAGACTTCCTCTCTACCCCCCCACCTTGGTCCCTCTCAGATACCCAGTGGA
ATTCCAACTTGAAGGATTGCATCCTGCTGGGGCTGAACATGCCTGCCAAAGACGTGTCCGACCTACGTTCCTGGC
CCCCTCGTTCAGAGACTGCCCTTCTCACGGGCTCTATGCCTGCACTGGGAAGGAAACAAATGTGTATAAACTGCT
GTCAATAAATGACACCCAGACCTTCC
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FIGURE 4940

MAAKVFESIGKFGLALAVAGGVVNSALYNVDAGHRAVIFDRFRGVQDIVVGEGTHFLIPWVQKPIIFDCRSRPRN
VPVITGSKDLQNVNITLRILFRPVASQLPRIFTSIGEDYDERVLPSITTEILKSVVARFDAGELITQRELVSRQV
SDDLTERAATFGLILDDVSLTHLTFGKEFTEAVEAKQVAQQEAERARFVVEKAEQQKKAAIISAEGDSKAAELIA
NSLATAGDGLIELRKLEAAEDIAYQLSRSRNITYLPAGQSVLLQLPQ

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FIGURE 4941

AGATCGATCTAAGATGGCGACCGTCGAACCGGAAACCACCCCTACTCCTAATCCCCCGACTACAGAAAAGGAGAA
AACGGAATCTAATCAGGAGGTTGCTAACCCAGAACACTATATTAAACATCCCCTACAGAACAGATGGGCACTCTG
GTTTTTTAAAAATGATAAAAGCAAAACTTGGCAAGCAAACTTGTGGCTGATCTCCAAGTTTGATACTGTTGAAGA
CTTTTGGGCTCTGTACAACCATATCCAGTTGTCTAGTAATTTAATGCCTGGCTGTGACTACTCACTTTTTAAGGA
TGGTATTGAGCCTATGTGGGAAGATGAGAAAAACAAACGGGGAGGACGATGGCTAATTACATTGAACAAACAGCA
GAGACGAAGTGACCTCGATCGCTTTTGGCTAGAGACACTTCTGTGCCTTATTGGAGAATCTTTTGATGACTACAG
TGATGATGTATGTGGCGCTGTTGTTAATGTTAGAGCTAAAGGTGATAAGATAGCAATATGGACTACTGAATGTGA
AAACAGAGAAGCTGTTACACATATAGGGAGGGTATACAAGGAAAGGTTAGGACTTCCTCCAAAGATAGTGATTGG
TTATCAGTCCCACGCAGACACAGCTACTAAGAGCGGCTCCACCACTAAAAATAGGTTTGTTGTTAAGAAGACAC
CTTCTGAGTATTCTCATAGGAGACTGCGTCAAGCAATCGAGATTTGGGAGCTGAACCAAAGCCTCTTCAAAAAGC
AGAGTGGACTGCATTTAAATTTGATTTCCATCTAAATGTTACTCAGATATAAGAGAAGTCTCATTCGCCTTTGTC
TTGTACTTCTGTGTTCTTTTTTTTTTTTTTTTTTTTTTTTTGGCTAGAGTTTACACTATCCCAATCAAAGAA
TTACAGTACACATCTCCAGAATCCATAAATGTGTTCCTGGCCCACTCTGTAATAGTTCAGTAGAATTACCATTAA
TTACATACAGATTTTACCTATCCACAATAGTCAGAAAACAACTTGGCATTTCTATACTTTACAGGAAAAAAAATT
CTGTTGTTCCATTTTATGCAGAAGCATATTTTGCTGGTTTGAAAGATTATGATGCATACAGTTTTCTAGCAATTT
TCTTTGTTTCTTTTTACAGCATTGTCTTTGCTGTACTCTTGCTGATGGCTGCTAGATTTTAATTTATTTGTTTCC
CTACTTGATAATATTAGTGATTCTGATTTCAGTTTTTCATTGTTTTGCTTTTGTTTTTTTCCTCATGTAACATT
GGTGAAGGATCCAGGAATATGACACAAAGGTGGAATAAACATTAATTTTGTGCATTCTTTGGTAATTTTTTTTGT
TTTTTGTAACTACAAAGCTTTGCTACAAATTTATGCATTTCATTCAAATCAGTGATCTATGTTTGTGTGATTTCC
TAAACATAATTGTGGATTATAAAAAATGTAACATCATAATTACATTCCTAACTAGAATTAGTATGTCTGTTTTTG
TATCTTTATGCTGTATTTTAACACTTTGTATTACTTAGGTTATTTTGCTTTGGTTAAAAATGGCTCAAGTAGAAA
AGCAGTCCCATTCATATTAAAACAGTGTACAAAACTGTAAATAAAATGTGTACAGTGAATTGTCTTT

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FIGURE 4942

AGATCGATCTAAGATGGCGACCGTCGAACAGATGGGCACTCTGGTTTTTTAAAAATGATAAAAGCAAAACTTGGC
AAGCAAACTTGTGGCTGATCTCCAAGTTTGATACTGTTGAAGACTTTTGGGCTCTGTACAACCATATCCAGTTGT
CTAGTAATTTAATGCCTGGCTGTGACTACTCACTTTTTAAGGATGGTATTGAGCCTATGTGGGAAGATGAGAAAA
ACAAACGGGGAGGACGATGGCTAATTACATTGAACAAACAGCAGAGACGAAGTGACCTCGATCGCTTTTGGCTAG
AGACACTTCTGTGCCTTATTGGAGAATCTTTTGATGACTACAGTGATGATGTATGTGGCGCTGTTGTTAATGTTA
GAGCTAAAGGTGATAAGATAGCAATATGGACTACTGAATGTGAAAACAGAGAAGCTGTTACACATATAGGGAGGG
TATACAAGGAAAGGTTAGGACTTCCTCCAAAGATAGTGATTGGTTATCAGTCCCACGCAGACACAGCTACTAAGA
GCGGCTCCACCACTAAAAATAGGTTTGTTGTTTAAGAAGACACCTTCTGAGTATTCTCATAGGAGACTGCGTCAA
GCAATCGAGATTTGGGAGCTGAACCAAAGCCTCTTCAAAAAGCAGAGTGGACTGCATTTAAATTTGATTTCCATC
TAAATGTTACTCAGATATAAGAGAAG

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FIGURE 4943A

GCCGAGCACCGCGCACCGCGTCATGGGGGCCGCCTCGGGCCGCCGGGGGCCGGGGCTGCTGCTGCCGCTGCCGCT
GCTGTTGCTGCTXGCCGCCGCAGCCCGCCCTGGCGTTGXGXACCCCGGGCTGCAGCCCXGAAACTTTTCTXGCTG
ACGAGGCCGGGGCGCAGCTCTTCGCGCAGAGCTACAACTCCAGCGCCGAACAGGTGCTGTTCCXAGAGCGTGGCC
GCCAGCTGGGCGCACGACACCAACATCACCGCGGAGAATGXXXXXXXXXXXXGAGGAAGCAGCCCTGCTCAGCCAG
GAGTTXTGCXGGAGGCCTXGGGGCAGXAAGGCCAAXGGAGCTGTATGAACCGATCTGGCAGAACTTCACGGXACC
XCGCAXGCTGCGCAGGATCATCGGAGCTGTGCGCACCCTGGGCTCTGCCAACXCTGCCCCTGGCTAAGCGGCAGC
AGTACAACGCCCTGCTAAGCAACATGAGCAGGATCTACTCCACCGCCAAGGTCTGCCTCCCCAACAAGACTGCCA
CCTGCTGGTCCCTGGACCCAGATCTCACCAACATCCTGGCTTCCTCGCGAACTACGXCCATGCTCCTGTTTGCCT
GGGAGGGCTGGCACAATGCTGCGGGCATCCCGCTGAAACCGCTGTACGAGGATTTCACTGCCCTCAGCAATGAAG
CCTACAAGCAGGACGGCTTCACAGACACGGGGGCCTACTGGCGCTCCTGGTACAACTCCCCCACCTTCGAGGACG
ATCTGGAACACCTCTACCAACAGCTAGAGCCCCTCTACCTGAACCTCCATGCCTTCGTCCGCCGCGCACTGCATC
GCCGATACGGAGACAGATACATCAACCTCAGGGGACCCATCCCTGCTCATCTGCTGGGAGACATGTGGGCCCAGA
GCTGGGAAAACATCTACGACATGGTGGTGCCTTTCCCAGACAAGCCCAACCTCGATGTCACCAGTACTATGCTGC
AGCAGGGCTGGAACGCCACGCACATGTTCCGGGTGGCAGAGGAGTTCTTCACCTCCCTGGAGCTCTCCCCCATGC
CTCCCGAGTTCTGGGAAGGGTCGATGCTGGAGAAGCCGGCCGACGGGCGGGAAGTGGTGTGCCACGCCTCGGCTT
GGGACTTCTACAACAGGAAAGACTTCAGGATCAAGCAGTGCACACGGGTCACGATGGACCAGCTCTCCACAGTGC
ACCATGAGATGGGCCATATACAGTACTACCTGCAGTACAAGGATCTGCCCGTCTCCCTGCGTCGGGGGGGCCAACC
CCGGCTTCCATGAGGCCATTGGGGACGTGCTGGCGCTCTCGGTCTCCACTCCTGAACATCTGCACAAAATCGGCC
TGCTGGACCGTGTCACCAATGACACGGAAAGTGACATCAATTACTTGCTAAAAATGGCACTGGAAAAAATTGCCT
TCCTGCCCTTTGGCTACTTGGTGGACCAGTGGCGCTGGGGGGGTCTTTAGTGGGCGTACCCCCCCTTCCCGCTACA
ACTTCGACTGGTGGTATCTTCGAACCAAGTATCAGGGGATCTGTCCTCCTGTTACCCGAAACGAAACCCACTTTG
ATGCTGGAGCTAAGTTTCATGTTCCAAATGTGACACCATACATCAGGTACTTTGTGAGTTTTGTCCTGCAGTTCC
AGTTCCATGAAGCCCTGTGCAAGGAGGCAGGCTATGAGGGCCCACTGCACCAGTGTGACATCTACCGGTCCACCA
AGGCAGGGGCCAAGCTCCGGAAGGTGCTGCAGGCTGGCTCCTCCAGGCCCTGGCAGGAGGTGCTGAAGGACATGG
TCGGCTTAGATGCCCTGGATGCCCAGCCGCTGCTCAAGTACTTCCAGCCAGTCACCCAGTGGCTGCAGGAGCAGA
ACCAGCAGAACGGCGAGGTCCTGGGCTGGCCCGAGTACCAGTGGCACCCGCCGTTGCCTGACAACTACCCGGAGG
GCATAGACCTGGTGACTGATGAGGCTGAGGCCAGCAAGTTTGTGGAGGAATATGACCGGACATCCCAGGTGGTGT
GGAACGAGTATGCCGAGGCCAACTGGAACTACAACACCAACATCACCACAGAGACCAGCAAGATTCTGCTGCAGA
AGAACATGCAAATAGCCAACCACACCCTGAAGTACGGCACCCAGGCCAGGAAGTTTGATGTGAACCAGTTGCAGA
ACACCACTATCAAGCGGATCATAAAGAAGGTTCAGGACCTAGAACGGGCAGCACTGCCTGCCCAGGAGCTGGAGG
AGTACAACAAGATCCTGTTGGATATGGAAACCACCTACAGCGTGGCCACTGTGTGCCACCCGAATGGCAGCTGCC
TGCAGCTCGAGCCAGATCTGACGAATGTGATGGCCACGTCCCGGAAATATGAAGACCTGTTATGGGCATGGGAGG
GCTGGCGAGACAAGGCGGGGAGAGCCATCCTCCAGTTTTACCCGAAATACGTGGAACTCATCAACCAGGCTGCCC
GGCTCAATGGCTATGTAGATGCAGGGGACTCGTGGAGGTCTATGTACGAGACACCATCCCTGGAGCAAGACCTGG
AGCGGCTCTTCCAGGAGCTGCAGCCACTCTACCTCAACCTGCATGCCTACGTGCGCCGGGCCCTGCACCGTCACT
ACGGGGCCCAGCACATCAACCTGGAGGGGCCCATTCCTGCTCACCTGCTGGGGAACATGTGGGCGCAGACCTGGT
CCAACATCTATGACTTGGTGGTGCCCTTCCCTTCAGCCCCCTCGATGGACACCACAGAGGCTATGCTAAAGCAGG
GCTGGACGCXCCAGGAGGATGTTTAAGGAGGCTGATGATTTCTTCACCTXCCCTGGGGCTGCTGCCCGTGCCTCC
TGAGTTCTGGAACAAGTCGATGCTGGAGAAGCCAACCGACGGGCGGGAGGTGGTCTGCCACGCCTCGGCCTGGGA
CTTCTACAACGGCAAGGACTTCCGGATCAAGCAGTGCACCACCGTGAACTTGGAGGACCTGGTAGTGGCCCACCA
CGAAATGGGCCACATCCAGTATTTCATGCAGTACAAAGACTTACCTGTGGCCTTGAGGGAGGGTGCCAACCCCGG
CTTCCATGAGGCCATTGGGGACGTGCTAGCCCTCTCAGTGTCTACGCCCAAGCACCTGCACAGTCTCAACCTGCT
GAGCAGTGAGGGTGGCAGCGACGAGCATGACATCAACTTTCTGATGAAGATGGCCCTTGACAAGATCGCCTTTAT
CCCCTTCAGCTACCTCGTCGATCAGTGGCGCTGGAGGGTATTTGATGGAAGCATCACCAAGGAGAACTATAACCA
GGAGTGGTGGAGCCTCAGGCTGAAGTACCAGGGCCTCTGCCCCCCAGTGCCCAGGACTCAAGGTGACTTTGACCC
AGGGGCCAAGTTCCACATTCCTTCTAGCGTGCCTTACATCAGGTACTTTGTCAGCTTCATCATCCAGTTCCAGTT
CCACGAGGCACTGTGCCAGGCAGCTGGCCACACGGGCCCCCTGCACAAGTGTGACATCTACCAGTCCAAGGAGGC
CGGGCAGCGCCTGGCGACCGCCATGAAGCTGGGCTTCAGXTAGGCCGTGGCCGGAXAGCCATGCAGCTGATCACG

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FIGURE 4943B

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XXGGCCAGCCCXAACATGAGCGCCTCGGCCATGTTGAGCTACTTCAAGCCGCTGCTGGAXCTGGCTCCGCACGGA
GAACGAGCTGCATGGGGAGAAGCTGGGCTGGCCGCAGTACAACTGGACGXCCGAACTCCGCTCGCTCAGAAGGGC
CCCTCCCAGACAGCGGCCGCGTCAGCTTXCCTGGGCCTGGACCTGGATGCGCAGGAGGCCCGCGTGGGCXCAGXT
GGCTGCTGCTCTTCCTGGGCATCGCCCTGXCTGGTAGCCACCCTGGGCCTCAGCCAGCGGCTXCTTXCAGCATCC
GCCACCGCAGCCTCCACCGGCACTCCCACGGGCCCCAGTTCGGCTCCGAGGTGGAGCTGAGACACTCCTGAGGTG
ACCCGGCTGGGTCGGCCCTGCCCAAGGGCCTCCCACCAGAGACTGGGATGGGAACACTGGTGGGCAGCTGAGG
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5361/6881
FIGURE 4944

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TGACCCAGGACTCTTTGTTTATTGCTGTGATTTTTCTTCCACAGCTATAGAACTGGTCCAGACAAATTCAGAATA
TGATCCTTCTCGGTGTTTTGCCTTTGTTCACGACCTGTGTGATGAAGAGAAGAGTTACCCAGTGCCCAAGGGCAG
TCTTGATATTATCATTCTCATATTTGTTCTTTCAGCAATTGTTCCAGACAAGATGCAGAAGGCTATCAACAGGCT
GAGCAGGCTTCTGAAACCTGGCGGGATGATGCTTCTGCGAGATTACGGCCGCTATGACATGGCTCAGCTTCGGTT
TAAAAAAGGTCAGTGTCTATCTGGAAATTTCTACGTGAGAGGTGATGGAACCAGAGTTTACTTCTTCACACAAGA
GGAACTGGACACGCTTTTCACCACTGCTGGACTGGAAAAAGTTCAGAACCTGGTGGATCGCCGACTGCAGGTGAA
CCGAGGAAAGCAACTGACAATGTACCGGGTTTGGATTCAGTGCAAATACTGCAAGCCCCTTCTGTCCAGCACCAG
CTGAGAGGCACCTGCTGCCAACACGATGCAAGCCCATTGTGTTTCCGGGCTTTTTTAAAAAAAAAAATTGTAGCAC
TGGGCGTGGTGCATGCCTGTAATCCCAGCCACTCAGGAGGCTGAGGCGGGGAGGATCCATTGAGCCCAGCAGTCC
AACCTGGGCAAAATAGTGAGAGACCCTGTATCTGAAAGTAATAATAAAAATAAAAAATATAAATGAGGTCTCGTT
GATGTTGGACAATTCAAGAATTCAGACTTGAACCTTAAACCTAGGAAAAGTTACTTTGTATCAGGATTCTAACAA
TTATGCTTCATATTTGTGAAGTCCTTTAAAAACATAATTTTCTCAAGTTCTTTCTTTGAGATCTCAATCTGTCTTA
GCATTTTGTAACTAATAACTGAAATTTTATTCAAAGGAATTGTAAACCTTAAACCACCAATTTATTTCCATGTGA
AAAAGTGTTACATATGACAAGTGTTTTTTGACTGTAATTGCGTTAAATCTTTTGAGAATGTAAATGCCGGGCTAG
GCAATTGCAGTTAATACATACAGAGGTTAGTGAAGGGCTTATTAAGTTGTAGGGGAAGCAAGCTGGGAAGAATCA
GATCAGATATTTTCCTGAC
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5362/6881
FIGURE 4945

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AGGTTCAGCTTGTTGGTTTAGATGAGGAGAGTTCAGAGTTTATTTGCAGAAACACCTTTGACCACCCATACCCCA
CCACAAAGCTCATGTGGATCCCTGACACAAAAGGCGTCTATCCAGACCTACTGGCAACAAGCGGTGACTATCTCC
GTGTGTGGAGGGTTGGTGAAACAGAGACCAGGCTGGAGTGTTTGCTAAACAATAATAAGAACTCTGATTTCTGTG
CTCCCCTGACCTCCTTTGACTGGAATGAGGTGGATCCTTATCTTTTAGGTACCTCAAGCATTGATACGACATGCA
CCATCTGGGGGCTGGAGACAGGGCAGGTGTTAGGGCGAGTGAATCTCGTGTCTGGCCACGTGAAGACCCAGCTGA
TCGCCCATGACAAAGAGGTCTATGATATTGCATTTAGCCGGGCCGGGGGTGGCAGGGACATGTTTGCCTCTGTGG
GTGCTGATGGCTCGGTGCGGATGTTTGACCTCCGCCATCTAGAACACAGCACCATCATTTACGAAGACCCACAGC
ATCACCCACTGCTTCGCCTCTGCTGGAACAAGCAGGACCCTAACTACCTGGCCACCATGGCCATGGATGGAATGG
AGGTGGTGATTCTAGATGTCCGGGTTCCCTGCACACCTGTCGCCAGGTTAAACAACCATCGAGCATGTGTCAATG
GCATTGCTTGGGCCCCACATTCATCCTGCCACATCTGCACTGCAGCGGATGACCACCAGGCTCTCATCTGGGACA
TCCAGCAAATGCCCCGAGCCATTGAGGACCCTATCCTGGCCTACACAGCTGAAGGAGAGATCAACAATGTGCAGT
GGGCATCAACTCAGCCCGACTGGATCGCCATCTGCTACAACAACTGCCTGGAGATACTCAGAGTGTAGTGTTGGT
GGCGCTGTGCCCACGAGGCAGGGGCTTTTGTATTTCCTGCCTCTGCCCCACCCCCAAAGTAAGAAGAAACATGTT
TCCAGTGGCCAGTATGTCTTTCATTGCTTTGCACCCACTGTTACCAGAAGCTGCTCTAGGAGTTCCTGGCCAGTC
ACCCCATCGCCCTCTGTGGCAGACTCAGTGCTGTGTGGCGCCTCCTCAGCCCAGGGCTGAGTTTTAAGATTTTCT
CTCCTTTCCTCTTCTCCTTTGGTTCCTCAATTAA
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FIGURE 4946

<u>**ATG**</u>AGTGGCTCCTTCGATCGCAAGCTCAGCAGCATCCTCACCGACATCTCCAGCTCCCTTAGCTGCCATGCGGGC
TCCAAGGACTCGCCTACCCTGCCCGAGTCTTCTGTCACTGACCTGGGCTACTACAGCGCTCCCCAGCACGATTAC
TACTCGGGCCAGCCCTATGGCCAGACGGTGAACCCCTACACCTACCACCACCAATTCAATCTCAATGGGCTTGCA
GGCACGGGCGCTTACTCGCCCAAGTCGGAATATACCTACGGAGCCTCCTACCGGCAATACGGGGCGTATCGGGAG
CAGCCGCTGCCAGCCCAGGACCCAGTGTCGGTGAAGGAGGAGCCGGAAGCAGAGGTGCGCATGGTGAATGGGAAG
CCCAAGAAGGTCCGAAAGCCGCGTACAATCTACTCCAGCTACCAGCTGGCCGCCCTGCAGCGCCGCTTCCAGAAG
GCCCAGTACCTGGCGCTGCCCGAGCGCGCCGAGCTGGCCGCGCAGCTGGGCCTCACGCAGACACAGGTGAAAATC
TGGTTCCAGAACCGCCGTTCCAAGTTCAAGAAACTCTACAAGAACGGGGAGGTGCCGCTGGAGCACAGTCCCAAT
AACAGTGATTCCATGGCCTGCAACTCACCACCATCACCCGCCCTCTGGGACACCTCTTCCCACTCCACTCCGGCC
CCTGCCCGCAGTCAGCTGCCCCCGCCGCTCCCATACAGTGCCTCCCCCAGCTACCTGGACGACCCCACCAACTCC
TGGTATCACGCACAGAACCTGAGTGGACCCCACTTACAGCAGCAGCCGCCTCAGCCAGCCACCCTGCACCATGCC
TCTCCCGGGCCCCGCCCAACCCTGGGGCTGTGTAC<u>**TGA**</u>

5364/6881
FIGURE 4947

MSGSFDRKLSSILTDISSSLSCHAGSKDSPTLPESSVTDLGYYSAPQHDYYSGQPYGQTVNPYTYHHQFNLNGLA
GTGAYSPKSEYTYGASYRQYGAYREQPLPAQDPVSVKEEPEAEVRMVNGKPKKVRKPRTIYSSYQLAALQRRFQK
AQYLALPERAELAAQLGLTQTQVKIWFQNRRSKFKKLYKNGEVPLEHSPNNSDSMACNSPPSPALWDTSSHSTPA
PARSQLPPPLPYSASPSYLDDPTNSWYHAQNLSGPHLQQQPPQPATLHHASPGPPPNPGAVY

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FIGURE 4948

CCCGTCACCAAGCTGGGCCGCTTGGTCAAGGAA**ATG**AAGATCAAATCCCTGGAGGAGATCTATCCCTTCTCCCTG
CCCATTAAGGTATCTGAGATCATTGACTTTTTCCTGGGGGCCTCTCTTAAGGACGAGGTTTTGAAGATTATGTCG
GTGCAGAAGCAGACCCGCTGCGGCTCTGTGCTGGTGCGCCTCATCCCTGCACCCAGGGGCACTGGCATTGTCTCC
GCACCTGTGCCCAAGAAGCTGCTCATGATAGCTGGTATCGATGACTGCTACACCTCAGCCCGGGGCTGCACTGCC
ACCCTGGGCAACTTCGCCAAGGCCACCTTTGACGCCATCTCTAAGACCTACAGCTACCTGACCCCCGACCTCTGG
AAGGAGACTGTATTTACCAAGTCTCCCTGTCAGGAATTCACTGACCACCTCGTCAAGACCCACACCAGAGTCTTC
GTGCAGCAGACCCAGGCTCCAGCTGTGGCTACAACA**TAG**GGTTTTTATACAAGAAAAATAAAGTGAATTAAGC

5366/6881
FIGURE 4949

MKIKSLEEIYPFSLPIKVSEIIDFFLGASLKDEVLKIMSVQKQTRCGSVLVRLIPAPRGTGIVSAPVPKKLLMIA
GIDDCYTSARGCTATLGNFAKATFDAISKTYSYLTPDLWKETVFTKSPCQEFTDHLVKTHTRVFVQQTQAPAVAT
T

5367/6881
FIGURE 4950

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AGACCCTTTTCACAAGATGGCGCCGAAAGCGAAGAAGGAAGCTCCTGCCCCTCCTAAAGCCGAAGCCAAAGCGAA
GGCTTTAAAGGCCAAGAAGGCAGTGTTGAAAGGTGTCCACAGCCACAAAAAGAAGAAGATCCGCACGTCACCCAC
CTTCCGGCAGCCGAAGACACTGCGACTCTGGAGACAGCCCAAATATCCTCGGAAGAGCGCTCCCAGGAGAAACAA
GCTTGACCACTATGCTATCATCAAGTTTCCGCTGACCACTGAGTCTGCCATGAAGAAGACAGAAGACAACAACAC
ACTTGTGTTCCTTGTGGATGTTAAAGCCAACAAGCACCAGATTAAACAGGCTGTGAAGAAGCTCTATGACATTGA
TGTGGCCAAGGTCAACACCCTGATTTGGCCTGATGGAGAGAAGAAGGCATATGTTCGACTGGCTCCTGGTTACGA
TGCTTTGGATGTTGCCAACAAAATTGGGATCATCTAAACTGAGTCCAGCTGCCTAATTCTGAATATATATATATA
TATATATATATATATATATATCTTTTCACCAT
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FIGURE 4951

GCAACCGCAGCCCAGCCCCAGTCCGGGAGGAAGTTCTGCCGGGCGCTCTCCGCCGGTGCCTCACTGGTTATAGTG
CTATACAGGAAACCTGGCAGCGCCGGAGCCGCGCGGTCGAGGAGGGAGCGCGGGACGCCGAGCCCACGCGCGCCT
GCCGGGACAAGTGGAGACGAGGCCGGCGAGCGGACGCCCCGAGGTTTGGCGAAGGAGCTGTGGCCGGGTCCCCTT
CTTATCCAGCCCGAGACACTGCGCTCCGGTGGGCGTCCCTGCGCTGGGAATCCCTCTCGGAGTTTTTCCAGGCCC
GGCCGGGTTGCTCCGGGAAAGGCCCTGTTGGGGGAGGTGGGCCCGGAGCTGGCAGGTCTACAATCCGGTTGGAAG
GGCTCGCAGTGGGTGATTCAGGGTGCCA**ATG**ACCTCCCCGCGAACGGGAACGCCCGCACTAGACAACCAGCCCCA
GACCGGCATTCCCAGAGCCGCAGGCGGGAGGGACGCAGGGACTCCGGGACAGCAAATCCCCGGGGGAGAAGGGAA
GGGGGAAGGCGGGACAGGGGAGGCCCACCCTCCTTGGGCTCCGCTAGCGACCAGCCAGCGCCCCTTCAGACGCAG
CCTTCCTGGCTCCGGACCCCGGCTTTCTGCTCCGGTCCTCGTCCCAATGCCCCCCAAGGTCCCCAGCAGAGGCAT
TCAGGTTCCTCCTCGCCCCGCCCAGACGCAGCTTCTTTGGGTATGGGTGACAGCACTCCTGAGCGTCGCTGTCCC
TATTCGCTGCCGTTGCCAGCTCCGATTCCGCGAAACCTCTCCGGCACCACCTCGGAAGCCCCGCCCAGGGCGATG
GTCCGGGCCTAACCTGCCGGCCCCGCCCACCCGGCCCTTGGGCTCCCTGAGGCCCGCCCAGCAGACACCGGAGAG
CAATGGTGTGATCTCCGCACACTGCAACCTCTGCCTCCAGGGTTCAAGTGGTTCTCCTGCCTCAGCCTCCCAAGC
AGATGGGACTACAGGTACTGGTAGT**TAA**CTCTCAAGGAGAAATTTCACGGTTGAGCACCGAAAAGAAAGTGGTCA
TGAAAGGAAGTATCAACAATTATCTTAAATTGGGTCAAGAAGGGAAGTATCGCGTCTACCACAATCAATACTCCA
CTAATTCATTTGCTTTGAATAAGCACCAGCACAGAGAAGACCATGATAAGAGAAGGCATCTTGCACATAAGTTCT
GTCTGACTCCAGCAGGAGAGTTCAAATGGAACGGTTCTGTCCATGGGTCCAAAGTTCTTACCATATCTACTCTGA
GACTGACTATCACCCAATTAGAAAACAACATCCCTTCATCCTTTCTTCATCCCAACCGGGCATCACATAGGGCAA
ACTGGATCAAGGCAGTTCAGATGTGTAGCAAACTCAGAGAATTTGCATTGGCTTTAGCCATTTTGGAGTGTGCAG
TTAAACCAGTTGTGATGCTACCAATATGGCGAGAATCTTTAGGACATACCAGCTTTCTCCCTTTGTCTCATAACC
ATGTCCACCAATGAGAATGCTAATACACAAGCTGCCCATCTTCACAGATCTAAGAACAAGGGAAAGGACAGTACA
GAAACGAGGCGTCACAGAATAGAGGTCAATGTGGAGCTGAGGAAAGCTAAGAAGGATGACCAGATGCTGAAGAGG
AGAAATGTAAGCTCATTTCCTGATGATGCTACTTCTCCGCTGCAGGAAAACTGCAACAACCAGGACTCCTGCCCT
AAGAGCCATAGGGAATATCGTCACTGGTACAGATGAACAGACTCAGGTTGTGATTGATGCAGGAGCACTCGCCGT
CTTTCCCAGCCTGCTCACCAACCCCAAAACTAACATTCAGAAGGAAGCTACGTGGACAATGTCAAACATCACAGC
CAGCCGCCAGGACCAGATACAGCAAGTTGTGAATCATGGATTAGTCCCATTCCTTGTCAGCGATCTCTCTAAGAT
TTTGAGACACAAAAGGAAGCTGTATGGGCCGTGGAACAGTTGAACAGATTGTGTACCTTGTTCACTGTGGCATAA
TAGAACCGTTGATGAACCTCTTACCTGCAAAAGATACCAAGATTATTCTGGTTATCCTGGATGCCATTTCAAATA
TCTTTCAGGCTGCTGAGAAACTAGGTGAAACTGAGAAACTTAGTATAATGATTGAAGAATGTGGAGGCGTAGACA
AAATTGAAGCTCTACAAAACCATGAAAATGAGTCTGTATATAAGGCTTCATTAAGCTTAACTGAGAAGTATTTCT
CTGTAGAGCTGCCAGAGCAGAGCTGAGCCACCCATTGCTGGAGAGGACATCCACGCAGGCCTGGACGAGCCGGAC
TGCCTTACTAAGGATTTCCTCCGTATCTGACTGCAACTCAGCACTCAGCTGCATGCGGGACAGGAAGAGGAAGAT
CAAAACGTTGTGCCAGAAACTACCTCTGAAGGCTACACTTTCCAAGTTCAGGATGGGGCTCCTGGGACCTTTAAC
TTTTAGATCATGTAGCTGAGGCATAAATTTGTTGTGTACTATGTTTGGTATTTTGTCTTATTGTTTCTCTACTAA
GAACTCTTTCTTAAATGTGGTTTGTTATTGTAGCACTTTTTACACTGAAACTATACTTGAACAGTTCCAACTGTA
CATACTGTATGAAGCTTGTCCTCTGACTAGGTTTCTAATTTCTATGTGGAATTTCCTATCTTGCAGCATCCTGTA
AATAAACATTCAAGTCCACCCTTTTCTTGACTTC

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FIGURE 4952

MTSPRTGTPALDNQPQTGIPRAAGGRDAGTPGQQIPGGEGKGEGGTGEAHPPWAPLATSQRPFRRSLPGSGPRLS
APVLVPMPPKVPSRGIQVPPRPAQTQLLWVWVTALLSVAVPIRCRCQLRFRETSPAPPRKPRPGRWSGPNLPAPP
TRPLGSLRPAQQTPESNGVISAHCNLCLQGSSGSPASASQADGTTGTGS

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FIGURE 4953

GCCAGTGAATTCGGGGGGCTCAGCCCTCCTCCCTCCCTTCCCCCTGCTTCAGGCTGCTGAGCACTGAGCAGCGCTC
AGA**ATG**GAAGCCATCGCCAAATATGACTTCAAAGCTACTGCAGACGACGAGCTGAGCTTCAAAAGGGGGGACATC
CTCAAGGTTTTGAACGAAGAATGTGATCAGAACTGGTACAAGGCAGAGCTTAATGGAAAAGACGGCTTCATTCCC
AAGAACTACATAGAAATGAAACCACATCCGTGGTTTTTTGGCAAAATCCCCAGAGCCAAGGCAGAAGAAATGCTT
AGCAAACAGCGGCACGATGGGGCCTTTCTTATCCGAGAGAGTGAGAGCGCTCCTGGGGACTTCTCCCTCTCTGTC
AAGTTTGGAAACGATGTGCAGCACTTCAAGGTGCTCCGAGATGGAGCCGGGAAGTACTTCCTCTGGGTGGTGAAG
TTCAATTCTTTGAATGAGCTGGTGGATTATCACAGATCTACATCTGTCTCCAGAAACCAGCAGATATTCCTGCGG
GACATAGAACAGGTGCCACAGCAGCCGACATACGTCCAGGCCCTCTTTGACTTTGATCCCCAGGAGGATGGAGAG
CTGGGCTTCCGCCGGGGAGATTTTATCCATGTCATGGATAACTCAGACCCCAACTGGTGGAAAGGAGCTTGCCAC
GGGCAGACCGGCATGTTTCCCCGCAATTATGTCACCCCCGTGAACCGGAACGTC**TAA**GAGTCAAGAAGCAATTAT
TTAAAGAAAGTGAAAAATGTAAAACACATACAAAGAATTAAACCCACAAGCTGCCTCTGACAGCAGCCTGTGAG
GGAGTGCAGAACACCTGGCCGGGTCACCCTGTGACCCTCTCACTTTGGTTGGAACTTTAGGGGGTGGGAGGGGGC
GTTGGATTTAAAAATGCCAAAACTTACCTATAAATTAAGAAGAGTTTTTATTACAAATTTTCACTGCTGCTCCTC
TTTCCCCTCCTTTGTCTTTTTTTTCATCCTTTTTTCTCTTCTGTCCATCAGTGCATGACGTTTAAGGCCACGTAT
AGTCCTAGCTGACGCCAATAATAAAAAACAAGAAACCAAAAAAAAAAAAACCCGAATTCA

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FIGURE 4954

MEAIAKYDFKATADDELSFKRGDILKVLNEECDQNWYKAELNGKDGFIPKNYIEMKPHPWFFGKIPRAKAEEMLS
KQRHDGAFLIRESESAPGDFSLSVKFGNDVQHFKVLRDGAGKYFLWVVKFNSLNELVDYHRSTSVSRNQQIFLRD
IEQVPQQPTYVQALFDFDPQEDGELGFRRGDFIHVMDNSDPNWWKGACHGQTGMFPRNYVTPVNRNV

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FIGURE 4955

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GGCACGAGGGCTCTGAGCGGGAGGCCTGAGCGGGAAGCATTGGCGTCCGAGCGACTTCTAGGAGCCTGGGGGTTCG
GCGCTATGGAGGAGCTCGATGGCGAGCCAACAGTCACTTTGATTCCAGGCGTGAATTCCAAGAAGAACCAAATGT
ATTTTGACTGGGGTCCAGGGGAGATGCTGGTATGTGAAACCTCCTTCAACAAAAAAGAAAAATCAGAGATGGTGC
CAAGTTGCCCCTTTATCTATATCATCCGTAAGGATGTAGATGTTTACTCTCAAATCTTGAGAAAACTCTTCAATG
AATCCCATGGAATCTTTCTGGGCCTCCAGAGAATTGACGAAGAGTTGACTGGAAAATCCAGAAAATCTCAATTGG
TTCGAGTGAGTAAAAACTACCGATCAGTCATCAGAGCATGTATGGAGGAAATGCACCAGGTTGCAATTGCTGCTA
AAGATCCAGCCAATGGCCGCCAGTTCAGCAGCCAGGTCTCCATTTTGTCAGCAATGGAGCTCATCGGAACCTGT
GTGAGATTCTTTTTATTGAAGTGGCCCCAGCTGGCCCTCTCCTCCTCCATCTCCTTGACTGGGTCCGGCTCCATG
TGTGCGAGGTGGACAGTTTGTCGGCAGATGTTCTGGGCAGTGAGAATCCAAGCAAACATGACAGCTTCTGGAACT
TGGTGACCATCTTGGTGCTGCAGGGCCGGCTGGATGAGGCCCGACAGATGCTCTCCAAGGAAGCCGATGCCAGCC
CCGCCTCTGCAGGCATATGCCGAATCATGGGGGACCTGATGAGGACAATGCCCATTCTTAGTCCTGGGAACACCC
AGACACTGACAGAGCTGGAGCTGAAGTGGCAGCACTGGCACGAGGAATGTGAGCGGTACCTCCAGGACAGCACAT
TCGCCACCAGCCCTCACCTGGAGTCTCTCTTGAAGATTATGCTGGGAGACGAAGCTGCCTTGTTAGAGCAGAAGG
AACTTCTGAGTAATTGGTATCATTTCCTAGTGACTCGGCTCTTGTACTCCAATCCCACAGTAAAACCCATTGATC
TGCACTACTATGCCCAGTCCAGCCTGGACCTGTTTCTGGGAGGTGAGAGCAGCCCAGAACCCCTGGACAACATCT
TGTTGGCAGCCTTTGAGTTTGACATCCATCAAGTAATCAAAGAGTGCAGCATCGCCCTGAGCAACTGGTGGTTTG
TGGCCCACCTGACAGACCTGCTGGACCACTGCAAGCTCCTCCAGTCACACAACCTCTATTTCGGTTCCAACATGA
GAGAGTTCCTCCTGCTGGAGTACGCCTCGGGACTGTTTGCTCATCCCAGCCTGTGGCAGCTGGGGGTCGATTACT
TTGATTACTGCCCCGAGCTGGGCCGAGTCTCCCTGGAGCTGCACATTGAGCGGATACCTCTGAACACCGAGCAGA
AAGCCCTGAAGGTGCTGCGGATCTGTGAGCAGCGGCAGATGACTGAACAAGTTCGCAGCATTTGTAAGATCTTAG
CCATGAAAGCCGTCCGCAACAATCGCCTGGGTTCTGCCCTCTCTTGGAGCATCCGTGCTAAGGATGCCGCCTTTG
CCACGCTCGTGTCAGACAGGTTCCTCAGGGATTACTGTGAGCGAGGCTGCTTTTCTGATTTGGATCTCATTGACA
ACCTGGGGGCCAGCCATGATGCTCAGTGACCGACTGACATTCCTGGGAAAGTATCGCGAGTTCCACCGTATGTACG
GGGAGAAGCGTTTTGCCGACGCAGCTTCTCTCCTTCTGTCCTTGATGACGTCTCGGATTGCCCCTCGGTCTTTCT
GGATGACTCTGCTGACAGATGCCTTGCCCCTTTTGGAACAGAAACAGGTGATTTCTCAGCAGAACAGACTTATG
AGTTGATGCGGTGTCTGGAGGACTTGACGTCAAGAAGACCTGTGCATGGAGAATCTGATACCGAGCAGCTCCAGG
ATGATGACATAGAGACCACCAAGGTGGAAATGCTGAGACTTTCTCTGGCACGAAATCTTGCTCGGGCAATTATAA
GAGAAGGCTCACTGGAAGGTTCCTGAGAACTGCTTCAATGTGGTATCTTTGTATGGCAATGTATATAGATTTTTT
AAAAGAATAAATGTTGTTTTGCAAATGTAAAAAAAAAAAAAAAAAAA
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FIGURE 4956

MEELDGEPTVTLIPGVNSKKNQMYFDWGPGEMLVCETSFNKKEKSEMVPSCPFIYIIRKDVDVYSQILRKLFNES
HGIFLGLQRIDEELTGKSRKSQLVRVSKNYRSVIRACMEEMHQVAIAAKDPANGRQFSSQVSILSAMELIWNLCE
ILFIEVAPAGPLLLHLLDWVRLHVCEVDSLSADVLGSENPSKHDSFWNLVTILVLQGRLDEARQMLSKEADASPA
SAGICRIMGDLMRTMPILSPGNTQTLTELELKWQHWHEECERYLQDSTFATSPHLESLLKIMLGDEAALLEQKEL
LSNWYHFLVTRLLYSNPTVKPIDLHYYAQSSLDLFLGGESSPEPLDNILLAAFEFDIHQVIKECSIALSNWWFVA
HLTDLLDHCKLLQSHNLYFGSNMREFLLLEYASGLFAHPSLWQLGVDYFDYCPELGRVSLELHIERIPLNTEQKA
LKVLRICEQRQMTEQVRSICKILAMKAVRNNRLGSALSWSIRAKDAAFATLVSDRFLRDYCERGCFSDLDLIDNL
GPAMMLSDRLTFLGKYREFHRMYGEKRFADAASLLLSLMTSRIAPRSFWMTLLTDALPLLEQKQVIFSAEQTYEL
MRCLEDLTSRRPVHGESDTEQLQDDDIETTKVEMLRLSLARNLARAIIREGSLEGS

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FIGURE 4957

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GGTGCTGCTTGTGTGCTCGTTTGGTGCGGACCTGGTACCTCTTTTGTGAAGCGGCAGCTGAGGAGACTCCGGCGC
TCGCCATGGCCGACGAAAAGCCCAAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGG
GGCAGGATGGTTCTGTGGTGCAGTTTAAGATTAAGAGGCATACACCACTTAGTAAACTAATGAAAGCCTATTGTG
AACGACAGGGATTGTCAATGAGGCAGATCAGATTCCGATTTGACGGGCAACCAATCAATGAAACAGACACACCTG
CACAGTTGGAAATGGAGGATGAAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGA
ACCTGCTTCTTTACTCCAGAACTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAACTGCAATTTGGT
TCCACCACATCCTGACTACTACCGTATAGTTTTCTCTATTCTTTCATTTCCCCCTTCCCCATTCCTTTATTGTAC
ATAAAGTAACTGGTATATGTGCACAAGCATATTGCATTTTTTTTTTTTTAACTAAACAGCCAATGGTATGTTTT
GATTGACATCAAGTGGAGACGGGATGGGGAAAAATACTGATTCTGTGAAAATACCCCCTTTCTCCATTAGTGGCA
TGCTCATTCAGCTCTTA
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FIGURE 4958

GCAGCGCGAGCTTCGGCCTCGGCTCTGTACCATGAAGAAGGGCCCCAGTGGCTATGGCTTCAACCTGCACAGCCGA
CAAGTCCAAGCCAGGCCAGTTCATCCGGTCAGTGGACCCAGACTCCCCGGCTGAGGCTTCAGGGCTCCGGGCCCA
GGATCGCATTGTGGAGGTGAACGGGGTCTGCATGGAGGGGAAGCAGCATGGGGACGTGGTGTCCGCCATCAGGGC
TGGCGGGGACGAGACCAAGCTGCTGGTGGTGGACAGGGAAACTGACGAGTTCTTCAAGAAATGCAGAGTGATCCC
ATCTCAGGAGCACCTGAATGGTCCCCTGCCTGTGCCCTTCACCAATGGGGAGATACAGAAGGAGAACAGTCGTGA
AGCCCTGGCAGAGGCAGCCTTGGAGAGCCCCAGGCCAGCCCTGGTGAGATCCGCCTCCAGTGACACCAGCGAGGA
GCTGAATTCCCAAGACAGCCCCCCAAAACAGGACTCCACAGCGCCCTCGTCTACCTCCTCCTCCGACCCCATCCT
AGACTTCAACATCTCCCTGGCCATGGCCAAAGAGAGGGCCCACCAGAAACGCAGCAGCAAACGGGCCCCGCAGAT
GGACTGGAGCAAGAAAAACGAACTCTTCAGCAACCTCTGAGCGCCCTGCTGCCACCCAGTGACTGGCAGGGCCGA
GCCAGCATTCCACCCCACCTTTTTCCTTCTCCCCAATTACTCCCCTGAATCAATGTACAAATCAGCACCCACATC
CCCTTTCTTGACAAATGATTTTTCTAGAGAACTATGTTCTTCCCTGACTTTAGGGAAGGTGAATGTGTTCCCGTC
CTCCCGCAGTCAGAAAGGAGACTCTGCCTCCCTCCTCCTCACTGAGTGCCTCATCCTACCGGGTGTCCCTTTGCC
ACCCTGCCTGGGACATCGCTGGAACCTGCACCATGCCAGGATCATGGGACCAGGCGAGAGGGCACCCTCCCTTCC
TCCCCCATGTGATAAATGGGTCCAGGGCTGATCAAAGAACTCTGACTGCAGAACTGCCGCTCTCAGTGGACAGGG
CATCTGTTACCCTGAGACCTGTGGCAGACACGTCTTGTTTTCATTTGATTTTTGTTAAGAGTGCAGTATTGCAGA
GTCTAGAGGAATTTTTGTTTCCTTGATTAACATGATTTTCCTGGTTGTTACATCCAGGGCATGGCAGTGGCCTCA
GCCTTAAACTTTTGTTCCTACTCCCACCCTCAGCGAACTGGGCAGCACGGGGAGGGTTTGGCTACCCCTGCCCAT
CCCTGAGCCAGGTACCACCATTGTAAGGAAACACTTTCAGAAATTCAGCTGGTTCCTCCAAACC

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FIGURE 4959

MSADAAAGAPLPRLCCLEKGPNGYGFHLHGEKGKLGQYIRLVEPGSPAEKAGLLAGDRLVEVNGENVEKETHQQV
VSRIRAALNAVRLLVVDPETDEQLQKLGVQVREELLRAQEAPGQAEPPAAAEVQGAGNENEPREADKSHPEQREL
RPRLCTMKKGPSGYGFNLHSDKSKPGQFIRSVDPDSPAEASGLRAQDRIVEVNGVCMEGKQHGDVVSAIRAGGDE
TKLLVVDRETDEFFKKCRVIPSQEHLNGPLPVPFTNGEIQKENSREALAEAALESPRPALVRSASSDTSEELNSQ
DSPPKQDSTAPSSTSSSDPILDFNISLAMAKERAHQKRSSKRAPQMDWSKKNELFSNL

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FIGURE 4960

CGCCCAGCAGCCCGTGGGCAGGCGCGGCGGAGCGAGCGGGGCCGGCGGCGGGCGCCGAGGGACGCCGAGGCCTCG
GGCGGGGGCTGGCCCGGGGTTCCAGGTCTCCAGTGGGGGCTGCAGACTAAGCAAA**ATG**AGGCGGTTCCTGAGGCC
AGGGCATGACCCTGTGCGGGAGAGGCTCAAGCGGGACCTGTTCCAGTTTAACAAGACGGTGGAGCATGGCTTCCC
GCACCAGCCCAGCGCCCTCGGCTACAGCCCGTCCCTGCACATCCTGGCCATCGGCACCCGTTCTGGAGCCATCAA
GCTCTACGGAGCCCCAGGCGTGGAGTTCATGGGGCTGCACCAGGAGAACAACGCTGTGACGCAGATCCACCTCCT
GCCCGGCCAGTGCCAGCTGGTCACCCTGCTGGATGACAACAGCCTGCACCTTTGGAGCCTGAAGGTCAAGGGCGG
GGCATCGGAGCTGCAGGAGGATGAGAGCTTCACACTGCGTGGACCCCCAGGGGCTGCCCCCAGTGCCACACAGAT
CACCGTGGTCCTGCCACATTCCTCCTGCGAGCTGCTCTACCTGGGCACCGAGAGTGGCAACGTGTTTGTGGTGCA
GCTGCCAGCTTTTCGTGCGCTGGAGGACCGGACCATCAGCTCGGACGCGGTGCTGCAGCGGTTGCCAGAGGAGGC
CCGCCACCGGCGTGTGTTCGAGATGGTGGAGGCACTGCAGGAGCACCCTCGAGACCCCAACCAGATCCTGATCGG
CTACAGCCGAGGCCTCGTTGTCATCTGGGACCTACAGGGCAGCCGCGTGCTCTACCACTTCCTCAGCAGCCAGCA
ACTGGAGAACATCTGGTGGCAGCGGGACGGCCGCCTGCTCGTCAGCTGTCACTCTGACGGCAGCTACTGCCAGTG
GCCCGTGTCCAGCGAAGCCCAGCAACCAGAGCCCCTCCGCAGCCTCGTGCCTTACGGTCCCTTTCCTTGCAAAGC
GATTACCAGAATCCTCTGGCTGACCACTAGGCAGGGGTTGCCCTTCACCATCTTCCAGGGTGGCATGCCACGGGC
CAGCTACGGGGACCGCCACTGCATCTCAGTGATCCACGATGGCCAGCAGACGGCCTTCGACTTCACCTCCCGTGT
CATCGGCTTCACTGTCCTCACAGAGGCAGACCCTGCAGCCACCTTTGACGACCCCTATGCCCTGGTGGTGCTGGC
TGAGGAGGAGCTGGTGGTGATTGACCTGCAGACAGCAGGCTGGCCACCGGTCCAGCTGCCCTACCTGGCTTCTCT
GCACTGTTCCGCCATCACCTGCTCTCACCACGTCTCCAACATCCCGCTGAAGCTGTGGGAGCGGATCATTGCCGC
CGGCAGCCGGCAGAACGCACACTTCTCCACCATGGAGTGGCCAATTGATGGTGGCACCAGCCTGACCCCAGCCCC
ACCCCAGAGGGACCTGCTGCTCACAGGGCACGAGGACGGCACGGTGCGGTTCTGGGATGCCTCGGGTGTCTGCCT
GCGGCTGCTCTACAAACTCAGCACTGTGCGCGTGTTCCTCACCGACACGGACCCCAACGAGAACTTCAGTGCCCA
GGGCGAGGACGAGTGGCCCCCACTCCGCAAGGTGGGCTCCTTTGACCCCTACAGTGATGACCCCGGCTGGGCAT
CCAGAAGATCTTCCTCTGCAAGTACAGCGGCTACCTGGCTGTGGCAGGCACGGCAGGGCAGGTGCTGGTACTGGA
ACTGAATGACGAGGCAGCGGAGCAGGCTGTGGAGCAGGTGGAGGCCGACCTGCTGCAGGACCAAGAGGGCTACCG
CTGGAAGGGGCACGAGCGCCTGGCAGCCCGCTCAGGGCCCGTGCGCTTTGAGCCTGGCTTTCAGCCCTTCGTGTT
GGTGCAGTGTCAGCCCCCGGCTGTGGTCACCTCCTTGGCCCTGCACTCTGAGTGGCGGCTCGTGGCCTTCGGCAC
CAGCCATGGCTTTGGCCTCTTTGACCACCAGCAGCGGCGGCAGGTCTTTGTTAAGTGCACACTGCACCCCAGTGA
CCAGCTGGCCTTGGAGGGCCCACTCTCCCGCGTCAAGTCCCTCAAGAAGTCCTTGCGTCAGTCATTCCGCCGGAT
GCGTCGGAGCCGGGTGTCCAGCCGGAAGCGGCACCCGGCTGGCCCCCCAGGAGAGGCACAGGAGGGGAGTGCCAA
GGCTGAGCGGCCAGGCCTCCAGAACATGGAGCTGGCGCCTGTGCAGCGCAAGATCGAGGCTCGCTCGGCAGAGGA
CTCCTTCACAGGCTTCGTCCGGACCCTGTACTTTGCTGACACCTACCTGAAGGACAGCTCCCGGCACTGCCCCTC
GCTGTGGGCTGGCACCAATGGGGGCACCATCTATGCCTTCTCCCTGCGTGTGCCTCCCGCCGAGCGGAGAATGGA
TGAGCCTGTGCGGGCAGAGCAGGCCAAGGAGATCCAGCTGATGCACCGGGCGCCGGTGGTGGGCATCCTGGTGCT
CGACGGACACAGCGTACCCCTTCCCGAGCCCCTCGAAGTGGCCCATGATCTGTCGAAGAGCCCTGACATGCAGGG
AAGCCACCAGCTGCTCGTCGTATCAGAGGAGCAGTTCAAGGTGTTCACGCTGCCCAAGGTGAGTGCCAAGCTGAA
GTTGAAGCTGACGGCCCTGGAGGGCTCAAGAGTGCGGCGGGTCAGCGTGGCCCACTTCGGCAGTCGTCGAGCCGA
GGACTACGGGGAGCACCACCTGGCAGTCCTTACCAACCTGGGCGACATCCAGGTGGTCTCGCTGCCCCTGCTCAA
GCCCCAGGTGCGCTACAGCTGCATCCGCCGGGAGGACGTCAGTGGCATCGCCTCCTGCGTCTTCACCAAATATGG
CCAAGGCTTCTACCTGATCTCACCCTCGGAGTTTGAGCGCTTCTCTCTCTCCACCAAGTGGCTGGTGGAGCCCCG
GTGTCTGGTGGATTCAGCAGAAACCAAGAACCACCGCCCTGGTAACGGTGCGGGCCCCAAGAAGGCCCCGAGCCG
AGCCAGGAACTCAGGGACTCAGAGTGATGGCGAGGAGAAGCAGCCCGGCCTGGTGATGGAGCGCGCTCTGCTCAG
TGATGAGAGAGCGGCAACTGGCGTTCACATCGAGCCGCCGTGGGGTGCAGCCTCAGCAATGGCGGAGCAGAGTGA
GTGGCTGAGCGTCCAGGCTGCGCGA**TGA**GCACACTACTACTGATGGCCTTTCGGGGGTCCCTGCCCCAACCGG
AGAGGCCGGTGCACAGGGCCCCGCCAGGGGCTGGGGGCATCCCGGCTTCCACAATGCAGCTGCTCTGGGCCTCGG
GAGAGGAGAGACCCCAGTCCCCTGGGCTGCCCTTCCCGGGCCTCGTCTGTCTGGGTCCTTTGGTCAATGTTGCAC
AGTTTTTATTGCTCCCATCCCTTTTTGTAGTGGGCTGGGTTTTAAGTTATAAATGTTAACTGCCTCTGGGTGAAA
AAGTTTTTAATAAACACCTATTACCTCTTG

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FIGURE 4961

MRRFLRPGHDPVRERLKRDLFQFNKTVEHGFPHQPSALGYSPSLHILAIGTRSGAIKLYGAPGVEFMGLHQENNA
VTQIHLLPGQCQLVTLLDDNSLHLWSLKVKGGASELQEDESFTLRGPPGAAPSATQITVVLPHSSCELLYLGTES
GNVFVVQLPAFRALEDRTISSDAVLQRLPEEARHRRVFEMVEALQEHPRDPNQILIGYSRGLVVIWDLQGSRVLY
HFLSSQQLENIWWQRDGRLLVSCHSDGSYCQWPVSSEAQQPEPLRSLVPYGPFPCKAITRILWLTTRQGLPFTIF
QGGMPRASYGDRHCISVIHDGQQTAFDFTSRVIGFTVLTEADPAATFDDPYALVVLAEEELVVIDLQTAGWPPVQ
LPYLASLHCSAITCSHHVSNIPLKLWERIIAAGSRQNAHFSTMEWPIDGGTSLTPAPPQRDLLLTGHEDGTVRFW
DASGVCLRLLYKLSTVRVFLTDTDPNENFSAQGEDEWPPLRKVGSFDPYSDDPRLGIQKIFLCKYSGYLAVAGTA
GQVLVLELNDEAAEQAVEQVEADLLQDQEGYRWKGHERLAARSGPVRFEPGFQPFVLVQCQPPAVVTSLALHSEW
RLVAFGTSHGFGLFDHQQRRQVFVKCTLHPSDQLALEGPLSRVKSLKKSLRQSFRRMRRSRVSSRKRHPAGPPGE
AQEGSAKAERPGLQNMELAPVQRKIEARSAEDSFTGFVRTLYFADTYLKDSSRHCPSLWAGTNGGTIYAFSLRVP
PAERRMDEPVRAEQAKEIQLMHRAPVVGILVLDGHSVPLPEPLEVAHDLSKSPDMQGSHQLLVVSEEQFKVFTLP
KVSAKLKLKLTALEGSRVRRVSVAHFGSRRAEDYGEHHLAVLTNLGDIQVVSLPLLKPQVRYSCIRREDVSGIAS
CVFTKYGQGFYLISPSEFERFSLSTKWLVEPRCLVDSAETKNHRPGNGAGPKKAPSRARNSGTQSDGEEKQPGLV
MERALLSDERAATGVHIEPPWGAASAMAEQSEWLSVQAAR

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FIGURE 4962A

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GTGGGTTCTGCCTAAAGCTGAATTCCCAGCGCTTTGGCTTCTCTGAGTTGGGGTTGTGTATAGGGGTCTTCGAAC
AGTTCCGGAACCAGCCAGCAGCCTTTAATTCTTGGGCGGACCACGGCCGGTTCTGATATCTTAGGGTGAAGAGAG
GGAGGTGTCGGCCAGCCAAGAGAGAAAATTGCGGATCTTGGGCTCAGGAAGACGGGAGAAGGGGTTCGGGGTCCC
GGGGTGGAAGAACGGTCGTCGTGGTTGCGCTTATAGAAGTAGGAGCAGAGGGTTCTCGTGGCAACCTTTTACTAC
CTTTGCCTTAACCTTTGGCCACTGTTCTTGGCTAAGATGAGCAGCCACCATACCACCTTTCCTTTTGACCCTGAG
CGGCGAGTCCGGAGTACGCTGAAGAAGGTCTTTGGGTTTGACTCTTTTAAGACGCCTTTACAGGAGAGTGCGACC
ATGGCTGTAGTAAAAGGTAACAAGGACGTCTTTGTGTGCATGCCCACAGGGGCAGGAAAATCCCTATGCTATCAG
CTCCCTGCTCTGTTGGCCAAAGGCATCACCATTGTAGTCTCTCCTCTCATTGCTTTGATTCAGGACCAAGTGGAC
CACTTGCTAACCCTAAAGGTACGAGTAAGTTCCCTGAACTCGAAGCTCTCTGCACAGGAAAGGAAGGAGCTGCTT
GCTGACCTGGAGCGAGAAAAGCCCCAGACCAAGATTCTGTACATCACCCCAGAGATGGCAGCTTCATCCTCCTTC
CAGCCCACCCTGAACTCCCTGGTGTCCCGCCACCTGCTGTCTTACTTGGTGGTGGATGAAGCTCATTGTGTTTCC
CAATGGGGGCATGACTTTCGTCCTGACTACTTGCGTCTGGGTGCCCTGCGCTCCCGCCTGGGACATGCCCCTTGT
GTGGCTCTGACCGCCACAGCCACCCCACAGGTCCAAGAGGACGTGTTTGCTGCCCTGCACCTGAAGAAACCAGTT
GCCATCTTCAAGACTCCCTGCTTCCGGGCCAACCTCTTCTATGATGTGCAATTCAAGGAACTGATTTCTGATCCC
TATGGGAACCTGAAGGACTTCTGCCTTAAGGCTCTTGGACAGGAGGCTGATAAAGGGTTATCTGGCTGCGGCATT
GTGTACTGCAGGACTAGAGAGGCTTGTGAACAGCTGGCCATAGAGCTCAGCTGCAGGGGTGTGAACGCCAAGGCT
TACCATGCAGGGCTGAAGGCCTCTGAAAGAACGCTGGTGCAGAACGACTGGATGGAGGAGAAGGTCCCTGTAATT
GTTGCAACCATTAGTTTTGGGATGGGAGTGGATAAAGCCAATGTCAGGTTTGTCGCCCATTGGAATATTGCCAAG
TCTATGGCTGGGTACTACCAGGAGTCTGGCCGGGCTGGCAGGGATGGGAAGCCTTCCTGGTGCCGTCTCTATTAC
TCCAGGAATGACCGGGACCAAGTCAGCTTCCTGATCAGGAAGGAAGTAGCAAAACTCCAGGAAAAGAGAGGAAAC
AAAGCATCTGATAAAGCCACTATCATGGCCTTTGATGCCCTGGTGACCTTCTGTGAAGAACTGGGGTGCCGCCAT
GCCGCCATTGCCAAGTACTTCGGGGATGCGCTGCCTGCCTGCGCCAAAGGCTGCGACCACTGCCAGAACCCCACG
GCCGTGCGGAGGCGGCTGGAGGCCTTGGAGCGCAGCAGCAGCTGGAGCAAGACCTGCATCGGGCCCTCCCAGGGG
AACGGCTTTGACCCCGAGCTGTATGAGGGAGGCCGCAAGGGCTACGGGGACTTCAGCAGGTATGACGAAGGTTCT
GGAGGCAGCGGGGATGAAGGCAGAGATGAGGCCCACAAGCGGGAGTGGAACCTCTTCTATCAGAAGCAGATGCAG
CTGCGCAAGGGCAAAGACCCCAAGATAGAAGAATTTGTACCCCCAGATGAGAACTGTCCCCTGAAAGAGGCTTCT
AGCAGGAGGATCCCCAGGCTGACTGTGAAGGCACGGGAGCACTGCCTGCGGCTTCTGGAGGAGGCGCTGAGCAGC
AACCGCCAGTCAACACGTACCGCTGATGAAGCTGACCTCCGGGCCAAGGCCGTGGAGCTGGAACATGAGACATTC
CGGAACGCCAAGGTGGCCAACCTCTACAAGGCCAGCGTGCTGAAGAAGGTGGCCGATATCCACAGAGCCTCCAAG
GATGGGCAGCCCTATGACATGGGAGGCAGTGCCAAGAGCTGCAGTGCCCAAGCTGAGCCCCCGGAGCCCAATGAG
TATGACATTCCACCAGCCTCCCATGTGTACTCGCTCAAACCCAAGCGGGTGGGAGCTGGTTTCCCCAAAGGCTCC
TGCCCGTTCCAGACGGCCACGGAACTGATGGAGACAACTCGGATCAGGGAGCAAGCCCCCCAGCCCGAGCGGGGA
GGCGAGCACGAGCCCCCGAGCCGGCCCTGTGGCCTCCTGGATGAGGATGGGAGTGAGCCCCTCCCTGGGCCCAGA
GGGGAGGTCCCTGGAGGCAGCGCTCACTATGGGGGGCCCTCCCCTGAGAAGAAGGCAAAAAGTTCCTCTGGGGGC
AGCTCCCTTGCCAAGGGCCGGGCTAGCAAGAAACAGCAGCTCCTAGCCACAGCGGCCCACAAGGATTCTCAGAGC
ATCGCCCGCTTCTTCTGCCGAAGGGTGGAAAGCCCAGCTCTGCTGGCATCAGCCCCAGAGGCAGAAGGTGCCTGC
CCCTCCTGTGAGGGGGTTCAGGGACCCCCGATGGCCCCAGAGAAGTACACAGGGGAGGAAGATGGAGCCGGGGGA
CATTCGCCTGCCCCTCCCCAGACTGAGGAGTGCCTCAGGGAGAGGCCAAGCACCTGCCCGCCCAGAGACCAGGGC
ACCCCTGAAGTCCAGCCCACCCCTGCAAAGGACACATGGAAGGGCAAGCGGCCTCGATCCCAGCAGGAGAACCCA
GAGAGCCAGCCTCAGAAGAGGCCACGCCCCTCAGCCAAGCCCTCCGTCGTAGCTGAGGTCAAGGGCAGCGTCTCG
GCCAGCGAACAGGGCACCTTGAATCCCACGGCTCAAGACCCCTTCCAGCTCTCCGCTCCTGGCGTCTCCTTGAAG
GAGGCTGCAAATGTTGTGGTCAAGTGCCTCACCCCTTTCTACAAGGAGGGCAAGTTTGCTTCCAAGGAGTTGTTT
AAAGGCTTTGCCCGCCACCTCTCACACTTGCTGACTCAGAAGACCTCTCCTGGAAGGAGCGTGAAAGAAGAGGCC
CAGAACCTCATCAGGCACTTCTTCCATGGCCGGGCCCGGTGCGAGAGCGAAGCTGACTGGCATGGCCTGTGTGGC
CCCCAGAGATGACCAACTGCTGGCTGGGCAGGGCCCGCGTCCTCCCCCAGATTCTAGCATGGGTCATCCTGGGCC
TCACCTGCTGATGCCAGGGCCATCGTCTTTTCTCAGTCCTTCTCCTTTCCAACCATACTTGGCTTTGGGGATGAC
CCCAGACACCCCCTGAATCCAGGTCAGAGGTCAGCCCACCTTTCTTTCTGCTTGCAAAGCCTATAGACCCTTCTC
AGAGCGGTCCTCATGGCTGGGTTTTCTGGGACACATGTCGAGGACAGAAGGTGGAGGGTGGTGGAGCTGCTGCTG
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5380/6881
FIGURE 4962B

GAAGAAGGGGAAGGAAGAGTGGCCCCTCCCCGAGTTCTAAGTCAGGATGAGGCCCACCTGTCCAAGGTATCGGAA
CCTACCCAGGGGACCCTCAGATCCTCCACCCACTCCCCCATCCATTACGATGCCAGCTTCCAGCCTTGCCCAGGT
CAGAGCTGTGGCAGAGGAGAGGCAGCCAGGCCCTGTTCCTGCTCAGCTCCTGCTCAGGAAGGCCAGGCCTGACAG
ATGTTTGGGAGAGGAATAAAGTTGTGTTGTTGTGGGGCATGCAGGCGTGCACAC

FIGURE 4963A

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GCGCTGCCCGCCTCGTCCCCACCCCCCAACCCCCCGCGCCCGCCCTCGGACAGTCCCTGCTCGCCCGCGCGCTGC
AGCCCCATCTCCTAGCGGCAGCCCAGGCGCGGAGGGAGCGAGTCCGCCCCGAGGTAGGTCCAGGACGGGCGCACA
GCAGCAGCCGAGGCTGGCCGGGAGAGGGAGGAAGAGGATGGCAGGGCCCACGCCCCAGCCCATGGGCCAGGCTGCT
CCTGGCAGCCTTGATCAGCGTCAGCCTCTCTGGGACCTTGGCAAACCGCTGCAAGAAGGCCCCAGTGAAGAGCTG
CACGGAGTGTGTCCGTGTGGATAAGGACTGCGCCTACTGCACAGACGAGATGTTCAGGGACCGGCGCTGCAACAC
CCAGGCGGAGCTGCTGGCCGCGGGCTGCCAGCGGGAGAGCATCGTGGTCATGGAGAGCAGCTTCCAAATCACAGA
GGAGACCCAGATTGACACCACCCTGCGGCGCAGCCAGATGTCCCCCCAAGGCCTGCGGGTCCGTCTGCGGCCCGG
TGAGGAGCGGCATTTTGAGCTGGAGGTGTTTGAGCCACTGGAGAGCCCCGTGGACCTGTACATCCTCATGGACTT
CTCCAACTCCATGTCCGATGATCTGGACAACCTCAAGAAGATGGGGCAGAACCTGGCTCGGGTCCTGAGCCAGCT
CACCAGCGACTACACTATTGGATTTGGCAAGTTTGTGGACAAAGTCAGCGTCCCGCAGACGGACATGAGGCCTGA
GAAGCTGAAGGAGCCCTGGCCCAACAGTGACCCCCCCTTCTCCTTCAAGAACGTCATCAGCCTGACAGAAGATGT
GGATGAGTTCCGGAATAAACTGCAGGGAGAGCGGATCTCAGGCAACCTGGATGCTCCTGAGGGCGGCTTCGATGC
CATCCTGCAGACAGCTGTGTGCACGAGGGACATTGGCTGGCGCCCGGACAGCACCCACCTGCTGGTCTTCTCCAC
CGAGTCAGCCTTCCACTATGAGGCTGATGGCGCCAACGTGCTGGCTGGCATCATGAGCCGCAACGATGAACGGTG
CCACCTGGACACCACGGGCACCTACACCCAGTACAGGACACAGGACTACCCGTCGGTGCCCACCCTGGTGCGCCT
GCTCGCCAAGCACAACATCATCCCCATCTTTGCTGTCACCAACTACTCCTATAGCTACTACGAGAAGCTTCACAC
CTATTTCCCTGTCTCCTCACTGGGGGTGCTGCAGGAGGACTCGTCCAACATCGTGGAGCTGCTGGAGGAGGCCTT
CAATCGGATCCGCTCCAACCTGGACATCCGGGCCCTAGACAGCCCCCGAGGCCTTCGGACAGAGGTCACCTCCAA
GATGTTCCAGAAGACGAGGACTGGGTCCTTTCACATCCGGCGGGGGGAAGTGGGTATATACCAGGTGCAGCTGCG
GGCCCTTGAGCACGTGGATGGGACGCACGTGTGCCAGCTGCCGGAGGACCAGAAGGGCAACATCCATCTGAAACC
TTCCTTCTCCGACGGCCTCAAGATGGACGCGGGCATCATCTGTGATGTGTGCACCTGCGAGCTGCAAAAAGAGGT
GCGGGTCAGCTCGCTGCAGCTTCAACGGAGACTTCGTGTGCGGACAGTGTGTGTGCAGCGAGGGCTGGAGTGGCCA
GACCTGCAACTGCTCCACCGGCTCTCTGAGTGACATTCAGCCCTGCCTGCGGGAGGGGCGAGGACAAGCCGTGCTC
CGGCCGTGGGGAGTGCCAGTGCGGGCACTGTGTGTGCTACGGCGAAGGCCGCTACGAGGGTCAGTTCTGCGAGTA
TGACAACTTCCAGTGTCCCCGCACTTCCGGGGTTCCTGTGCAATGACCGAGGACGCTGCTCCATGGGCCAGTGTGT
GTGTGAGCCTGGTTGGACAGGCCCAAGCTGTGACTGTCCCCTCAGCAATGCCACCTGCATCGACAGCAATGGGGG
CATCTGTAATGGACGTGGCCACTGTGAGTGTGGCCGCTGCCACTGCCACCAGCAGTCGCTCTACACGGACACCAT
CTGCGAGATCAACTACTCGGCGATCCACCCGGGCCTCTGCGAGGACCTACGCTCCTGCGTGCAGTGCCAGGCGTG
GGGCACCGGCGAGAAGAAGGGGCGCACGTGTGAGGAATGCAACTTCAAGGTCAAGATGGTGGACGAGCTTAAGAG
AGCCGAGGAGGTGGTGGTGCGCTGCTCCTTCCGGGACGAGGATGACGACTGCACCTACAGCTACACCATGGAAGG
TGACGGCGCCCCTGGGCCCAACAGCACTGTCCTGGTGCACAAGAAGAAGGACTGCCCTCCGGGCTCCTTCTGGTG
GCTCATCCCCCTGCTCCTCCTCCTCCTGCCGCTCCTGGCCCTGCTACTGCTGCTATGCTGGAAGTACTGTGCCTG
CTGCAAGGCCTGCCTGGCACTTCTCCCGTGCTGCAACCGAGGTCACATGGTGGGCTTTAAGGAAGACCACTACAT
GCTGCGGGAGAACCTGATGGCCTCTGACCACTTGGACACGCCCATGCTGCGCAGCGGGAACCTCAAGGGCCGTGA
CGTGGTCCGCTGGAAGGTCACCAACAACATGCAGCGGCCTGGCTTTGCCACTCATGCCGCCAGCATCAACCCCAC
AGAGCTGGTGCCCTACGGGCTGTCCTTGCGCCTGGCCCGCCTTTGCACCGAGAACCTGCTGAAGCCTGACACTCG
GGAGTGCGCCCAGCTGCGCCAGGAGGTGGAGGAGAACCTGAACGAGGTCTACAGGCAGATCTCCGGTGTACACAA
GCTCCAGCAGACCAAGTTCCGGCAGCAGCCCAATGCCGGGAAAAAGCAAGACCACACCATTGTGGACACAGTGCT
GATGGCGCCCCGCTCGGCCAAGCCGGCCCTGCTGAAGCTTACAGAGAAGCAGGTGGAACAGAGGGCCTTCCACGA
CCTCAAGGTGGCCCCCGGCTACTACACCCTCACTGCAGACCAGGACGCCCGGGGCATGGTGGAGTTCCAGGAGGG
CGTGGAGCTGGTGGACGTACGGGTGCCCCTCTTTATCCGGCCTGAGGATGACGACGAGAAGCAGCTGCTGGTGGA
GGCCATCGACGTGCCCGCAGGCACTGCCACCCTCGGCCGCCGCCTGGTAAACATCACCATCATCAAGGAGCAAGC
CAGAGACGTGGTGTCCTTTGAGCAGCCTGAGTTCTCGGTCAGCCGCGGGGACCAGGTGGCCCGCATCCCTGTCAT
CCGGCGTGTCCTGGACGGCGGGAAGTCCCAGGTCTCCTACCGCACACAGGATGGCACCGCGCAGGGCAACCGGGA
CTACATCCCCGTGGAGGGTGAGCTGCTGTTCCAGCCTGGGGAGGCCTGGAAAGAGCTGCAGGTGAAGCTCCTGGA
GCTGCAAGAAGTTGACTCCCTCCTGCGGGGCCGCCAGGTCCGCCGTTTCCACGTCCAGCTCAGCAACCCCTAAGTT
TGGGGCCCACCTGGGCCAGCCCCACTCCACCACCATCATCATCAGGGACCCAGATGAACTGGACCGGAGCTTCAC
GAGTCAGATGTTGTCATCACAGCCACCCCCTCACGGCGACCTGGGCGCCCCGCAGAACCCCAATGCTAAGGCCGC
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FIGURE 4963B

TGGGTCCAGGAAGATCCATTTCAACTGGCTGCCCCCTTCTGGCAAGCCAATGGGGTACAGGGTAAAGTACTGGAT
TCAGGGCGACTCCGAATCCGAAGCCCACCTGCTCGACAGCAAGGTGCCCTCAGTGGAGCTCACCAACCTGTACCC
GTATTGCGACTATGAGATGAAGGTGTGCGCCTACGGGGCTCAGGGCGAGGGACCCTACAGCTCCCTGGTGTCCTG
CCGCACCCACCAGGAAGTGCCCAGCGAGCCAGGGCGTCTGGCCTTCAATGTCGTCTCCTCCACGGTGACCCAGCT
GAGCTGGGCTGAGCCGGCTGAGACCAACGGTGAGATCACAGCCTACGAGGTCTGCTATGGCCTGGTCAACGATGA
CAACCGACCTATTGGGCCCATGAAGAAAGTGCTGGTTGACAACCCTAAGAACCGGATGCTGCTTATTGAGAACCT
TCGGGAGTCCCAGCCCTACCGCTACACGGTGAAGGCGCGCAACGGGGCCGGCTGGGGGCCTGAGCGGGAGGCCAT
CATCAACCTGGCCACCCAGCCCAAGAGGCCCATGTCCATCCCCATCATCCCTGACATCCCTATCGTGGACGCCCA
GAGCGGGGAGGACTACGACAGCTTCCTTATGTACAGCGATGACGTTCTACGCTCTCCATCGGGCAGCCAGAGGCC
CAGCGTCTCCGATGACACTGGCTGCGGCTGGAAGTTCGAGCCCCTGCTGGGGGAGGAGCTGGACCTGCGGCGCGT
CACGTGGCGGCTGCCCCCGGAGCTCATCCCGCGCCTGTCGGCCAGCAGCGGGCGCTCCTCCGACGCCGAGGCCCC
CACGGCCCCCGGACGACGGCGGCGCGGGCGGGAAGGGCGGCAGCCGTGCCCCGCAGTGCGACACCCGGGCCCCC
CGGAGAGCACCTGGTGAATGGCCGGATGGACTTTGCCTTCCCGGGCAGCACCAACTCCCTGCACAGGATGACCAC
GACCAGTGCTGCTGCCTATGGCACCCACCTGAGCCCACACGTGCCCCACCGCGTGCTAAGCACATCCTCCACCCT
CACACGGGACTACAACTCACTGACCCGCTCAGAACACTCACACTCGACCACACTGCCCAGGGACTACTCCACCCT
CACCTCCGTCTCCTCCCACGACTCTCGCCTGACTGCTGGTGTGCCCGACACGCCCACCCGCCTGGTGTTCTCTGC
CCTGGGGCCCACATCTCTCAGAGTGAGCTGGCAGGAGCCGCGGTGCGAGCGGCCGCTGCAGGGCTACAGTGTGGA
GTACCAGCTGCTGAACGGCGGTGAGCTGCATCGGCTCAACATCCCCAACCCTGCCCAGACCTCGGTGGTGGTGGA
AGACCTCCTGCCCAACCACTCCTACGTGTTCCGCGTGCGGGCCCAGAGCCAGGAAGGCTGGGGCCGAGAGCGTGA
GGGTGTCATCACCATTGAATCCCAGGTGCACCCGCAGAGCCCACTGTGTCCCCTGCCAGGCTCCGCCTTCACTTT
GAGCACTCCCAGTGCCCCAGGCCCGCTGGTGTTCACTGCCCTGAGCCCAGACTCGCTGCAGCTGAGCTGGGAGCG
GCCACGGAGGCCCAATGGGGATATCGTCGGCTACCTGGTGACCTGTGAGATGGCCCAAGGAGGAGGGCCAGCCAC
CGCATTCCGGGTGGATGGAGACAGCCCCGAGAGCCGGCTGACCGTGCCGGGCCTCAGCGAGAACGTGCCCTACAA
GTTCAAGGTGCAGGCCAGGACCACTGAGGGCTTCGGGCCAGAGCGCGAGGGCATCATCACCATAGAGTCCCAGGA
TGGAGGACCCTTCCCGCAGCTGGGCAGCCGTGCCGGGCTCTTCCAGCACCCGCTGCAAAGCGAGTACAGCAGCAT
CACCACCACCCACACCAGCGCCACCGAGCCCTTCCTAGTGGATGGGCTGACCCTGGGGGCCCAGCACCTGGAGGC
AGGCGGCTCCCTCACCCGGCATGTGACCCAGGAGTTTGTGAGCCGGACACTGACCACCAGCGGAACCCTTAGCAC
CCACATGGACCAACAGTTCTTCCAAACT**TGA**CCGCACCCTGCCCCACCCCGCCATGTCCCACTAGGCGTCCTCC
CGACTCCTCTCCCGGAGCCTCCTCAGCTACTCCATCCTTGCACCCCTGGGGGCCCAGCCCACCCGCATGCACAGA
GCAGGGGCTAGGTGTCTCCTGGGAGGCATGAAGGGGGCAAGGTCCGTCCTCTGTGGGCCCAAACCTATTTGTAAC
CAAAGAGCTGGGAGCAGCACAAGGACCCAGCCTTTGTTCTGCACTTAATAAATGGTTTTGCTACTGCTAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5383/6881
FIGURE 4964

MAGPRPSPWARLLLAALISVSLSGTLANRCKKAPVKSCTECVRVDKDCAYCTDEMFRDRRCNTQAELLAAGCQRE
SIVVMESSFQITEETQIDTTLRRSQMSPQGLRVRLRPGEERHFELEVFEPLESPVDLYILMDFSNSMSDDLDNLK
KMGQNLARVLSQLTSDYTIGFGKFVDKVSVPQTDMRPEKLKEPWPNSDPPFSFKNVISLTEDVDEFRNKLQGERI
SGNLDAPEGGFDAILQTAVCTRDIGWRPDSTHLLVFSTESAFHYEADGANVLAGIMSRNDERCHLDTTGTYTQYR
TQDYPSVPTLVRLLAKHNIIPIFAVTNYSYSYYEKLHTYFPVSSLGVLQEDSSNIVELLEEAFNRIRSNLDIRAL
DSPRGLRTEVTSKMFQKTRTGSFHIRRGEVGIYQVQLRALEHVDGTHVCQLPEDQKGNIHLKPSFSDGLKMDAGI
ICDVCTCELQKEVRSARCSFNGDFVCGQCVCSEGWSGQTCNCSTGSLSDIQPCLREGEDKPCSGRGECQCGHCVC
YGEGRYEGQFCEYDNFQCPRTSGFLCNDRGRCSMGQCVCEPGWTGPSCDCPLSNATCIDSNGGICNGRGHCECGR
CHCHQQSLYTDTICEINYSAIHPGLCEDLRSCVQCQAWGTGEKKGRTCEECNFKVKMVDELKRAEEVVVRCSFRD
EDDDCTYSYTMEGDGAPGPNSTVLVHKKKDCPPGSFWWLIPLLLLLLPLLALLLLLCWKYCACCKACLALLPCCN
RGHMVGFKEDHYMLRENLMASDHLDTPMLRSGNLKGRDVVRWKVTNNMQRPGFATHAASINPTELVPYGLSLRLA
RLCTENLLKPDTRECAQLRQEVEENLNEVYRQISGVHKLQQTKFRQQPNAGKKQDHTIVDTVLMAPRSAKPALLK
LTEKQVEQRAFHDLKVAPGYYTLTADQDARGMVEFQEGVELVDVRVPLFIRPEDDDEKQLLVEAIDVPAGTATLG
RRLVNITIIKEQARDVVSFEQPEFSVSRGDQVARIPVIRRVLDGGKSQVSYRTQDGTAQGNRDYIPVEGELLFQP
GEAWKELQVKLLELQEVDSLLRGRQVRRFHVQLSNPKFGAHLGQPHSTTIIIRDPDELDRSFTSQMLSSQPPPHG
DLGAPQNPNAKAAGSRKIHFNWLPPSGKPMGYRVKYWIQGDSESEAHLLDSKVPSVELTNLYPYCDYEMKVCAYG
AQGEGPYSSLVSCRTHQEVPSEPGRLAFNVVSSTVTQLSWAEPAETNGEITAYEVCYGLVNDDNRPIGPMKKVLV
DNPKNRMLLIENLRESQPYRYTVKARNGAGWGPEREAIINLATQPKRPMSIPIIPDIPIVDAQSGEDYDSFLMYS
DDVLRSPSGSQRPSVSDDTGCGWKFEPLLGEELDLRRVTWRLPPELIPRLSASSGRSSDAEAPTAPRTTAARAGR
AAAVPRSATPGPPGEHLVNGRMDFAFPGSTNSLHRMTTTSAAAYGTHLSPHVPHRVLSTSSTLTRDYNSLTRSEH
SHSTTLPRDYSTLTSVSSHDSRLTAGVPDTPTRLVFSALGPTSLRVSWQEPRCERPLQGYSVEYQLLNGGELHRL
NIPNPAQTSVVVEDLLPNHSYVFRVRAQSQEGWGREREGVITIESQVHPQSPLCPLPGSAFTLSTPSAPGPLVFT
ALSPDSLQLSWERPRRPNGDIVGYLVTCEMAQGGGPATAFRVDGDSPESRLTVPGLSENVPYKFKVQARTTEGFG
PEREGIITIESQDGGPFPQLGSRAGLFQHPLQSEYSSITTTHTSATEPFLVDGLTLGAQHLEAGGSLTRHVTQEF
VSRTLTTSGTLSTHMDQQFFQT

FIGURE 4965A

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CAAGGGGCCAGGACCCTGAGTTTTATTGGGCCTTGACTAATGTGCCTCCTCATCTGTGTCCTCACCCTCATTGTG
GACTTAGGTTTCAGGTATCTCAGAGGCAGACCCACAGGCTCTGCTCCAGGCCATGAAGGACCTGGACGGCATGGA
TGCTGATATCTTAGGTCTGAAGAAATCTAATTCAGCCCCTAGCAAAAAAGCTGCAAAGGACCCTGGGAAAGGAGA
GCTGCCCAACCACCCCAAGCCTGCAGGGGGTGCCATTCCCACCAAGAAGTCACTTCCGTCTCCCAGCAGCTCTGG
GCATCAGAACAGGAGGTTTTCCTCTGAAGACTTGGAAGACCCATTGAGAGGACTTCTCTCCTATGATGAAGGAGG
AATCACCAAGCAGCCGCCTGTGACACAGAGTAAAACAGCTTCTGACAAGAGCCCCAGCACAGTGAGAGATCAAGG
TCCCTCTATTCCTCTAACTCCTGGGGACACCCCCATCCGAAAAAAAGAAGAATTGTTGTTTGATGATGGGGATGA
CATCATGGCCACCTTGGGGTTTGGAGACAGCCCCAAAGCAGAGAAGAGGCAGATAGGAGACCAGGAAGGGCCTCG
CCCTGCTCGCTCCACGCTGGATGAGCTGCTGGGTCGAGGCATGGCCACCAAACTCCTGGCCCGCCCGGGCACCGG
GGAGCACAGGGAGTTCAAGCTAGACAAGAAGTACCAGAGGCCACAGGACAGTGAAGATATGTGGGGTGACGAGGA
CTTCACCTTTGGAGCCTATCAGCCCACTGTGGTCTCCTCTGAGGGCCGGCAGTCCCGCCGGCAGTCTGTCAGTAG
GTTCTTCGCAGACAGTGGCGCAGACCCCAAGGGAGAACCAGGCTCCAAACAGAGCCCTCCAATGGCTTCCAGCCC
CATCCAGCCCAGGAAGGGAGGAGCTGACTGGTTGGGCCTCAAGGACGAGGACTTGGACCTGTTCCCTGCCTCACC
CACCAGAGAGGCCCATCGGGAAAGTTCAGTGCCTGTCACGCCCTCAGTGCCTCCTCCTGCGAGCCAGCACTCCAC
GCCAGCTGGGCTGCCCCCCTCCAGGGCAAAGCCACCAACTGAAGGTGCAGGGTCCCCTGCCAAAGCCAGCCAGGC
TTCCAAGCTGCGAGCCTCCAAGGAGGAGAAAGAGGACTGGCTGAGCCATGCCCTGTCTCGGAAGAAGTCCCAAGG
CCTGGCCAGAGAGCAGCATGCTGGGACCTCTGAGGGCCTGCATTTGGCGGGGACAGCGGGCCATCCCCCTTCTGG
CAGCCTGACCTGGGCCTTCTGTCACCTTCACCTTGAACGCTGCCTTTCCTCAGCCAACCTCTCACCAGCACACAA
GGGCTTGAGCACGCAGCTGCTGGAGGGAGTTCTGGAACAACTGCACGAGAAAGACCGTGTGTCAGGCCTGGTGTC
TCGGGGTCCCCTGTGACTCAGAACCATGCCGCCTCAGCACTCCCTACAGGTTCCCCAAAGAGGGGAACAGCCCCT
GGAGACCTCTCAGCCACTGAGCCTGCCACGTGTTTCCCGAGCACCCAGAAACCCACAGAGCCTTCCGTGCCCGTC
CAGCCCCTGCTCCCAGAGTCCCTGGCCCGGAGCCTGCTGCCGAGCACAGAATACCAGAAGCAGCTCCTGGCAGCA
CAGGTGCAACTTCAGTGCAGCCCCGCTGAGCTCCAGGCCGAGCTGCTGCATAGCCAGGCCCGGCTGGCAGAGCTG
GAGGCCCAGGTGCGGAAGCTGGAGCTAGAACGGGCCCAGCATGAGCTGCTGCTGGGGAGTCTGCAGCAGCAGCAC
CAGGCAGACCTGGAGCTCATCGAGAGTGCACACAGAAGCCGCATCAAGGTGCTAGAAACATCGTACCAGCAACGG
GAGGAGCGGCTCCGGAGAGAGAACGAAGAGCTGTCAGCTCGGTATCTGTCGCAGTGCCAGGAGGCCGAACAGGCC
CGTGCTGAGCTTACGGCCCAGCACCAGCGGCGCTTGGCGGCCATAGCGCAGGAGAAGGACCAGGAAATGGAGCGG
CTCCGGGAGCTGCAGCGGGCGTCCATCCTAGACATGCGCAGAGACCACGAGGAGCAGCTGCAGCGGCTAAAGCTG
CTGAAGGACCGAGAGGTCGATGCGGCCACCAGTGCCACCTCCCACACACGGTCCCTGAATAGCATCATCCACCAG
ATGGAGAAGTTCTCCAGCAGCCTGCACGAGTTGTCCTCCCGCGTGGAGGCCTCGCACCTCACCACCTCCCAGGAG
CGGGAGCTGGGGATCCGGCAGCGTGACGAGCAGCTGCGGGGAGCGGCTGGGCCAGCAGCAGCGGGACATGGAGGA
GGAGCGGAGCCGGCAACAGGAGGTCATCGGGAAGATGGAGGCACGGCTGAATGAGCAGAGCCGGCTGCTGGAGCA
GGAACGCTGGCGGGTGACTGCCGAGCAGTCCAAGGCGGAGTCCATGCAGCGCGCCCTAGAGGAGCAAAGGAAGGT
CACGGCCCAGCAGATGGCCATGGAAAGGGCGGAGCTGGAACGGGCCAAGAGCGCCTTGCTGGAGGAGCAGAAGTC
TGTCATGCTCAAGTGCGGGGAGGAGCGGCGGCGCCTGGCTGCCGAGTGGGCGGAGTTCTCCGCGCAGCAAAAGCT
GAGAGCAGGCTGAGCTGAAGATCAGGGCCAGCGAGCTCCGGGCCGAGGAGAAGCAGCTGGCAGCGGAGAGAGCAG
CCCTGGAGCAGGAGCGGCAGGAGCTGCGGCTGGAGAAGGAGAGGATCAACGCCACCGCCCTGCGTGTCAAGCTCC
GCGCCGAGGAGGTGGAGAGCATGAGCAAGGTGGCCTCCGAGAAGTACGAGGAGGGGGAGCGGGCATTGCGCGAGG
CCCAGCAGGTGCAGGCAGAGCAGCAGGCCCGGTTGCAGGCGGTGCAGCAACAGCAGGAGCGGCTGCGGAAGCAGG
AGCAGCACATGCACCAGGAGCATCTGAGTCTGGCCCAGCAGAGGCTGCAACTGGACCGCGCACGACAGGACCTGC
CCTCTAGCCTCGTGGGTCTGTTCCCCAGGGCCCAGGGCCCTGCAGCCTCCAGCCAGAGTGCCCTCATGCCTCCTG
CTCCCACCACCCGTTGGTGCAGCCAGCCGCCAACTGGCCTGGACCCCAGCCCCTTGCACCTCCATGCCAGGCTGG
CACTGCTGAGGCACATGGCAGAGCAGCACCTGCGGTCTGCGGTGGCACCTGGCAGCTGGACCACAGCCAGGAGAA
GGGTACTATTAGCCCTGCTTCAAACATGCAGAAACTGAGGCCCGGGGAGATTAAATAACCTGCCTGAAATGACAC
CGTCCTGGGCCGCCGGACACCCCCCTGGGGCCGATGCCCAACAGTGACATCGACTTGAGCAACCTGGAGCGGCT
GGAGAAGTACCGGAGCTTCGACCGCTACCGGCGCCGAGCAGAGCAGGAGGCGCAGGCCCCGCACTGGTGGCGGAC
CTACCGAGAGTATTTCGGGGAGAAGACAGATCCCAAAGAGAAGATTGATATTGGGCTGCCTCCACCCAAAGTCTC
CCGGACCCAACAGCTACTGGAACGGAAACAGGCCATCCAGGAGCTTCGGGCCAATGTGGAAGAGGAGCGGGCTGC
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FIGURE 4965B

CCGCCTCCGCACAGTGTCCCGCTGGATGCCGTGCGGGCCGAGTGGGAGAGGACCTGTGGCCCCTACCACAAGCAG
CGTCTGGCTGAGTATTACGGCCTCTACCGAGACCTGTTCCACGGTGCCACCTTTGTGCCCCGAGTCCCCCTGCAC
GTGGCCTACGCTGTGGGTGAGGATGACCTGATGCCTGTGTACTGTGGCAATGAGGTGACTCCAACCGAGGCTGCC
CAAGCGCCAGAGGTGACCTATGAGGCAGAAGAGGGCTCCTTGTGGACGTTGCTACTCACTAGCTTGGATGGGCAC
CTGCTGGAGCCAGATGCTGAGTACCTCCACTGGCTGCTAACCAACATCCCGGGTAACCGGGTGGCTGAAGGACAG
GTGACGTGTCCCTACCTCCCCCCCTTCCCTGCCCGAGGCTCCGGCATCCACCGTCTTGCCTTCCTGCTCTTCAAG
CAGGACCAGCCGATTGACTTCTCTGAGGACGCACGCCCCTCACCCTGCTATCAGCTGGCCCAGCGGACCTTCCGC
ACTTTTGATTTCTACAAGAAACACCAAGAAACCATGACTCCAGCCGGCTTGTCCTTCTTCCAGTGCCGCTGGGAT
GACTCCGTCACCTACATCTTCCACCAGCTTCTGGACATGCGGGAGCCGGTGTTTGAGTTCGTGCGGCCGC

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FIGURE 4966

MAPKTKKGCKVTLPEKPVKLASHTRDTTGVSQMFPSSKARTKSLLGDDVFSTMAGLEEADAEVSGISEADPQALL
QAMKDLDGMDADILGLKKSNSAPSKKAAKDPGKGELPNHPKPAGGAIPTKKSLPSPSSSGHQNRRFSSEDLEDPL
RGLLSYDEGGITKQPPVTQSKTASDKSPSTVRDQGPSIPLTPGDTPIRKKEELLFDDGDDIMATLGFGDSPKAEK
RQIGDQEGPRPARSTLDELLGRGMATKLLARPGTGEHREFKLDKKYQRPQDSEDMWGDEDFTFGAYQPTVVSSEG
RQSRRQSVSRFFADSGADPKGEPGSKQSPPMASSPIQPRKGGADWLGLKDEDLDLFPASPTREAHRESSVPVTPS
VPPPASQHSTPAGLPPSRAKPPTEGAGSPAKASQASKLRASKEEKEDWLSHALSRKKSQGLAREQHAGTSEGLHL
AGTAGHPPSGSQPLTSTQGLEHAAAGGSSGTTARERPCVRPGVSGSPVTQNHAASALPTGSPKRGTAPGDLSATE
PATCFPSTQKPTEPSVPVQPLLPESLARSLLPSTEYQKQLLAAQVQLQCSPAELQAELLHSQARLAELEAQVRGS
GAVGAGGRVATGGDTESGWKLPQEGGRAVGTGQRGVQPPPLPGCWPSCCLPGAEAGARTGPA

5387/6881
FIGURE 4967

CCCGAGCATCCCGCGCCGACGGGGCTGTGCCGGAGCAGCTGTGCAGAGCTGCAGGCGCGCGTC**ATG**GCTGCTTTG
AGACAGCCCCAGGTCGCGGAGCTGCTGGCCGAGGCCCGGCGAGCCTTCCGGGAGGAGTTCGGGGCCGAGCCCGAG
CTGGCCGTGTCAGCGCCGGGCCGCGTCAACCTCATCGGGGAACACACGGACTACAACCAGGGCCTGGTGCTGCCT
ATGGCTCTGGAGCTCATGACGGTGCTGGTGGGCAGCCCCCGCAAGGATGGGCTGGTGTCTCTCCTCACCACCTCT
GAGGGTGCCGATGAGCCCCAGCGGCTGCAGTTTCCACTGCCCACAGCCCAGCGCTCGCTGGAGCCTGGGACTCCT
CGGTGGGCCAACTATGTCAAGGGAGTGATTCAGTACTACCCAGCTGCCCCCCTCCCTGGCTTCAGTGCAGTGGTG
GTCAGCTCAGTGCCCCTGGGGGGTGGCCTGTCCAGCTCAGCATCCTTGGAAGTGGCCACGTACACCTTCCTCCAG
CAGCTCTGTCCAGACTCGGGCACAATAGCTGCCCGCGCCCAGGTGTGTCAGCAGGCCGAGCACAGCTTCGCAGGG
ATGCCCTGTGGCATCATGGACCAGTTCATCTCACTTATGGGACAGAAAGGCCACGCGCTGCTCATTGACTGCAGG
TCCTTGGAGACCAGCCTGGTGCCACTCTCGGACCCCAAGCTGGCCGTGCTCATCACCAACTCTAATGTCCGCCAC
TCCCTGGCCTCCAGCGAGTACCCTGTGCGGCGGCGCGCCAATGTGAAGAAGTGGCCCGGGCGCTGGGCAAGGAAAGC
CTCCGGGAGGTACAACTGGAAGAGCTAGAGGCTGCCAGGGACCTGGTGAGCAAAGAGGGCTTCCGGCGGGCCCGG
CACGTGGTGGGGGGAGATTCGGCGCACGGCCCAGGCAGCGGCCGCCCTGAGACGTGGCGACTACAGAGCCTTTGGC
CGCCTCATGGTGGAGAGCCACCGCTCACTCAGAGACGACTATGAGGTGAGCTGCCCAGAGCTGGACCAGCTGGTG
GAGGCTGCGCTTGCTGTGCCTGGGGTTTATGGCAGCCGCATGACGGGCGGTGGCTTCGGTGGCTGCACGGTGACA
CTGCTGGAGGCCTCCGCTGCTCCCCACGCCATGCGGCACATCCAGGAGCACTACGGCGGGACTGCCACCTTCTAC
CTCTCTCAAGCAGCCGATGGAGCCAAGGTGCTGTGCTTG**TGA**GGCACCCCCAGGACAGCACACGGTGAGGGTGCG
GGGCCTGCAGGCCAGTCCCACGGCTCTGTGCCCGGTGCCATCTTCCATATCCGGGTGCTCAATAAACTTGTGCCT
CCAATGTGGTA

FIGURE 4968

MAALRQPQVAELLAEARRAFREEFGAEPELAVSAPGRVNLIGEHTDYNQGLVLPMALELMTVLVGSPRKDGLVSL
LTTSEGADEPQRLQFPLPTAQRSLEPGTPRWANYVKGVIQYYPAAPLPGFSAVVVSSVPLGGGLSSSASLEVATY
TFLQQLCPDSGTIAARAQVCQQAEHSFAGMPCGIMDQFISLMGQKGHALLIDCRSLETSLVPLSDPKLAVLITNS
NVRHSLASSEYPVRRRQCEEVARALGKESLREVQLEELEAARDLVSKEGFRRARHVVGEIRRTAQAAAALRRGDY
RAFGRLMVESHRSLRDDYEVSCPELDQLVEAALAVPGVYGSRMTGGGFGGCTVTLLEASAAPHAMRHIQEHYGGT
ATFYLSQAADGAKVLCL

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FIGURE 4969

GGTCGTTCGTTGGGCGGTGCTGGTTTTTCGCTCGTCGACTGCGGCTCTTCCTCGGGCAGCGGAAGCGGCGCGGCG
GTCGGAGAAGTGGCCTAAAACTTCGGCGTTGGGTGAAAGAAA**ATG**GCCCGAACCAAGCAGACTGCTCGTAAGTCC
ACCGGTGGGAAAGCCCCCCGCAAACAGCTGGCCACGAAAGCCGCCAGGAAAAGCGCTCCCTCTACCGGCGGGGTG
AAGAAGCCTCATCGCTACAGGCCCGGGACCGTGGCGCTTCGAGAGATTCGTCGTTATCAGAAGTCGACCGAGCTG
CTCATCCGGAAGCTGCCCTTCCAGAGGTTGGTGAGGGAGATCGCGCAGGATTTCAAAACCGACCTGAGGTTTCAG
AGCGCAGCCATCGGTGCGCTGCAGGAGGCTAGCGAAGCGTACCTGGTGGGTCTGTTCGAAGATACCAACCTGTGT
GCCATCCACGCTAAGAGAGTCACCATCATGCCCAAAGACATCCAGTTGGCTCGCCGGATACGGGGAGAGAGAGCT
TAAGTGAAGGCAGTTTTTATGGCGTTTTGTAGTAAATTCTGTAAAATACTTTGGTTTAATTTGTGACTTTTTTTG
TAAGAAATTGTTTATAATATGTTGCATTTGTACTTAAGTCATTCCATCTTTCACTCAGGATGAATGCGAAAAGTG
ACTGTTCACAGACCTCAGTGATGTGAGCACTGTTGCTCAGGAGTGACAAGTTGCTAATATGCAGAAGGGATGGGT
GATACTTCTTGCTTCTCATGATGCATGTTCTGTATGTTAATGACTTGTTGGGTAGCTATTAAGGTACTAGAGTT
GATAAATGTGTACAGGGTCCTTTTGCAATAAAACTGGTTATGACTTGATCCAAGTGTTTAACAATTGGGGCTGTT
AAGTCTGACCATACATCACTGTGATAGAATGTGGGCTTTTTCAAGGGTGAAGATACAAGTCTTAACCACAGTGTA
ACTTACAGTTTCCTTTAAAAAAAAAAAAAAGTAAACCTGGCAGCTATAGAATACACTATGTGCATTTATAATAGCT
ATTTTATATATTGTAGTATCAACATTTTTAAATTAAATGTTTTACATTCACAAGTGGTGGGGAGTCTTGTCATTA
AGGTGTGTGTAATTTAGAGTCCAGTTGGTTTCTTCTGACTGCACTTGTTCTCATAGTAGTAAAATGCTATGCGC
ATTTATACCTTGCATAAGTCCTCATTCTACCACATGTTAACCCTCTAGCTGATAATGCAAACACTAACTGGGGGA
TTTTATTTATAAGGGCTCTAGAAAAAACGAGTTATTCACACCAGCATCATCTTAACTAACATTCTGAACTAGTTA
GTGCAGCTTTTCATTGTGTTGTGTGGTTGGTCTCATAACTAGGTTGAGTTTTTCTCCTCTGCTGAGGAAACAGTA
CCGAAGTTCTTTTTCTTGTGGCATTTGTATTATAAAAACTTGGTGTGGGGGAGGAGCACAAAACTCCAGCCCACT
GAACCTCTGCCAATTAAGATGGTGTTGGGTTAGGTTACATCTGGTTACTGTCCTGGGAAAATCATTTTTATAGAG
ATGGCCTTCCAAGTGGTTTTAAAATTTACTGAAGTTTTTAGGTCAATTATGTATGTTGACTAAATTTACAAATAA
ACTTGTTTATCC

5390/6881
FIGURE 4970

MARTKQTARKSTGGKAPRKQLATKAARKSAPSTGGVKKPHRYRPGTVALREIRRYQKSTELLIRKLPFQRLVREI
AQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKRVTIMPKDIQLARRIRGERA

FIGURE 4971A

GAAGAGGCAGGAAGACAAGACC<u>ATGT</u>CGAAGGGCCCCGGGCCCGGCGGCTCCGCAGCTTCCTCGGCGCCCCCGGC
CGCTACCGCTCAGGTGCTGCAGGCACAGCCCGAGAAACCGCAGCACTACACGTACCTGAAAGAATTCCGCACAGA
GCAGTGCCCACTCTTTGTGCAACACAAATGCACGCAGCATCGGCCCTACACCTGCTTCCACTGGCACTTCGTGAA
CCAGCGGCGCCGCCGGTCCATCCGCCGTCGGGACGGCACCTTCAATTACAGCCCTGACGTCTACTGCACCAAGTA
CGACGAGGCTACAGGCCTCTGCCCGGAGGGCGACGAGTGCCCATTCCTGCACAGAACCACAGGGGACACTGAGCG
CAGGTACCACCTTCGTTACTACAAAACTGGAATCTGCATCCACGAGACAGACTCGAAAGGCAACTGCACCAAAAA
CGGCCTGCACTGCGCTTTTGCCCACGGGCCCCATGACCTCCGCTCCCCTGTCTACGACATCAGGGAGCTTCAGGC
CATGGAGGCCTTGCAGAATGGCCAGACCACGGTAGAGGGGAGCATAGAGGGCCAGTCGGCTGGGGCTGCGAGCCA
TGCCATGATAGAAAAGATCCTCAGCGAGGAGCCTCGGTGGCAAGAGACTGCTTATGTGCTGGGGAACTATAAGAC
GGAGCCTTGCAAGAAGCCCCCGCGGCTGTGCCGCCAAGGCTATGCCTGTCCCTACTACCACAACAGCAAGGACCG
GCGGCGGAGCCCCGGAAGCACAAATACAGGTCGTCTCCATGTCCAAACGTCAAGCACGGGGATGAGTGGGGAGA
CCCTGGCAAGTGTGAGAACGGAGACGCCTGCCAGTACTGCCACACCCGCACCGAGCAGCAGTTCCACCCCGAGAT
CTACAAGTCCACCAAGTGCAACGACATGCAGCAGTCGGGCAGCTGTCCCCGAGGACCCTTCTGCGCCTTTGCCCA
CGTAGAACAGCCACCCCTGAGTGACGACCTGCAGCCTTCCTCAGCTGTGTCCAGCCCCACCCAGCCAGGTCCTGT
CCTGTACATGCCATCTGCCGCCGGAGACTCGGTGCCTGTGAGCCCCTCCAGCCCGCATGCCCCTGACCTCAGTGC
CCTCCTCTGTAGAAACAGCAGCCTAGGCAGCCCGTCTAACCTCTGCGGCTCCXCCACCGGGCTCCATCAGGAAGC
CCCCAAACCTGGAGGGCATCGTCTTCCCTGGGGAGTCTGGCCTGGCCCCTGGCAGCTA<u>TAA</u>GAAGGCTCCCGGCT
TCGAGAGGGAAGACCAGGTGGGGAGCCGAGTACCTGAAAAATTTCAAATGCCAGGCCAAATTAAAACCCCACTCAT
TAGAGCCCAGGAGTCAAGAGCAGCCTCTGCTTCAGCCCAAACAGGACATGCTGGGCATCCTCCCCGCAGGCAGCC
CCCTGACCTCAAGCATCTCTTCTAGTATCACCTCCAGCCTGGCAGCTACCCCCCCTAGCCCAGTGGGCACCAGCA
GCGTCCCCGGCATGAATGCAAACGCTCTGCCCTTCTACCCCACCAGCGACACGGTAGAGTCAGTCATAGAGTCTG
CTTTGGATGACCTGGACCTGAATGAGTTTGGCGTGGCCGCCCTGGAGAAGACTTTCGATAACAGCACAGTGCCCC
ACCCAGGAAGCATCACCATCGGCGGCAGCTTGCTGCAGAGCTCTGCACCCGTGAACATCCCCGGCTCCTTGGGCA
GCTCTGCCTCCTTCCACTCAGCATCCCCGTCCCCTCCCGTCAGCCTCTCCTCGCATTTCCTGCAGCAGCCCCAGG
GCCACCTGAGTCAGTCGGAAAACACATTTTTGGGAACCTCAGCATCACATGGATCTTTGGGTCTGAACGGGATGA
ACAGCAGCATCTGGGAGCATTTTGCCTCTGGAAGCTTCTCCCCGGGCACTTCCCCCGCTTTCCTATCAGGGCCAG
GGGCTGCCGAGCTGGCCCGACTTCGGCAAGAGCTGGATGAAGCCAACAGCACCATCAAGCAGTGGGAGGAGTCCT
GGAAGCAGGCCAAGCAGGCTTGTGATGCCTGGAAGAAAGAGGCGGAGGAGGCTGGTGAGCGGGCCAGTGCGGCGG
GCGCCGAGTGCGAGCTGGCCCGGGAGCAGCGGGATGCACTGGAGGTGCAGGTGAAGAAGCTCCAGGAGGAGCTGG
AGCGGCTACACGCGGGGCCTGAGCCCCAGGCCCTGCCCGCCTTCTCCGACCTGGAGGCGCTCTCACTCTCCACCC
TCTACTCCCTCCAGAAACAACTGCGGGCCCACCTGGAACAAGTGGACAAGGCCGTGTTCCACATGCAGTCGGTGA
AATGCCTTAAGTGTCAGGAACAGAAGCGGGCAGTGCTGCCGTGCCAACACGCTGCGCTGTGTGAGCTCTGCGCTG
AGGGCAGCGAGTGCCCCATCTGCCAGCCTGGCCGGGCCCACACCCTCCAGTCGTGACCCTGCAGGCCTGGCCCAG
CCTGGCCCAGATCTTCTCACCTAGGACTTTTTAAAGTATATATATATATATGAATATATATATATGTGTATGT
ATGTATGTATATGTATATGATTATGTATATGTATACATTTCCGTATGTATGTATATGTATACATTTCCGTATGTG
TGCAGGTATGCGTGGTGGTGTGGACAGTGTCTGTGTGTATATCTGTACATAGATATAGACACACACTTTAAAAGA
CTTACCAAGCACTTTTTAAAAGAAGAAACTATTTTGCAGTCCTCCCCTACCCACTCCCTGCCCTTCCCACTGCAG
AGATGACATCCCCTCTTCTCCCACTGGCCTTTTGGCAGAGAATCTGGTTCTGTCTCTTTTTTAATGTAGGAACTA
ACTATTTTTAACTTCTTCCTGGGGCCTGAGCAGGGAAGGGTGGGACTGGAAGGCACTAAGGGGAAGGGAGAAGCC
CTCAGGGCAGGCCCTGCTCCCCCTACCTCCTTGCCAGGGCAAGGGTGGAGTGTGGAAGACGTGGGTCCCCCAGAG
CAGGCCTGGCCCCCAGCTXGXTGAGGGCCTCAGGGAGGCCCGAGGGGGAGTGCTGGGGGTCTCAGCTGGCTTAGC
TCCTAAGTTTACCAAATGTTAATTTAGTCTTGGGGAGAACAGCAAGGGCTGGAGGCCAGTGCTGCAGGGCCAGCC
CCACTCCTGACACCTGGGCCCTTGAAGCTCCTTGAGGGGCAAGGCCCAGGAGTTCCAGCCCTCAGGTTCCTGAGG
GTCCACCCTCAGTCCTTCCCCCGCCGCCCCTCCCGGACTCCCCACAAGAGCCTCCCTGGCCCCAGGGCCGCCT
ACCAGGCTGGTACTCATTCTATGACCACCGCCCCCAACCAGCTGCCCCCAGCTCTCCCTGCCCCCTCCCCTCTCT
GGCAGCTAGCAGGGCAATTGGCGGGGAGGAGTGCGGACTGAGGACTGAGGACCAAGGGGGCCCAGGCCCTGCCCT
CCTACCCGGAGGGGCTCCGTTTGCATTCCTTGGTGCTCTCTGAGTGCAGCTGGTGTCCCGCCCTGTTCTGGGCGG
ACGCCTGTGTGCGTGTGTGTGTGCCTGTCCAGTGTATATTGTGTCTTAGCTTCCATTTTAAAAATTGTTCTGTAC

5392/6881
FIGURE 4971B

AGAGAGAGATGCAGCAGGGGCGGGAGGGCAGAGTGGGCGGAGGGGAGCAGCCGCACCCCCAGCACCGGGTGTCTG
CGGTAGGAACAAGAGGGCTGAGAGGGTCTGGTCCTGGCCCAGGCTCCCCCTTGGGCTCAGCACGAAAGGGCTTTC
AATGAATTAAGTGAAAACTTTTTCCTTTTTTACAAAAATGCAAAAATCAACAAAGCTCCAAACCTATTGGAAATA
AAATATGAACTTGC

5393/6881
FIGURE 4972

MSKGPGPGGSAASSAPPAATAQVLQAQPEKPQHYTYLKEFRTEQCPLFVQHKCTQHRPYTCFHWHFVNQRRRRSI
RRRDGTFNYSPDVYCTKYDEATGLCPEGDECPFLHRTTGDTERRYHLRYYKTGICIHETDSKGNCTKNGLHCAFA
HGPHDLRSPVYDIRELQAMEALQNGQTTVEGSIEGQSAGAASHAMIEKILSEEPRWQETAYVLGNYKTEPCKKPP
RLCRQGYACPYYHNSKDRRRSPRKHKYRSSPCPNVKHGDEWGDPGKCENGDACQYCHTRTEQQFHPEIYKSTKCN
DMQQSGSCPRGPFCAFAHVEQPPLSDDLQPSSAVSSPTQPGPVLYMPSAAGDSVPVSPSSPHAPDLSALLCRNSS
LGSPSNLCGSXTGLHQEAPKPGGHRLPWGVWPGPWQL

5394/6881
FIGURE 4973

TGCGTTTTGAGTCTCGGGACCCCTGTTGGAGAGACT**ATG**GCGCTCAACAAGAATCACTCGGAGGGCGGCGGAGTG
ATCGTCAATAACACCGAGAGCATCCTAATGTCCTATGATCACGTGGAACTCACATTCAATGACATGAAGAACGTG
CCAGAAGCCTTCAAAGGGACCAAGAAAGGCACTGTCTACCTTACCCCTTACCGGGTCATCTTTCTGTCCAAGGGC
AAGGATGCCATGCAGTCCTTCATGATGCCATTTTATCTCATGAAAGACTGTGAGATCAAGCAGCCCGTATTTGGT
GCAAACTACATCAAGGGAACAGTGAAGGCGGAAGCGGGAGGTGGCTGGGAAGGCTCTGCTTCCTACAAGTTGACT
TTCACGGCAGGGGGCGCCATTGAGTTCGGACAGCGGATGCTCCAGGTGGCATCTCAAGCCTCCAGAGGTGAAGTC
CCCAGTGGAGCCTATGGCTACTCTTACATGCCCAGCGGGGCCTATGTCTATCCCCCGCCAGTCGCCAATGGAATG
TACCCCTGCCCTCCTGGCTACCCCTATCCACCGCCCCCACCTGAGTTCTATCCAGGACCCCCCATGATGGACGGG
GCCATGGGATACGTGCAGCCCCCACCACCGCCCTACCCTGGGCCCATGGAACCTCCGGTCAGCGGCCCCGATGTC
CCCTCCACTCCTGCAGCCGAAGCCAAGGCCGCAGAAGCAGCCGCCAGCGCCTATTACAACCCAGGCAATCCTCAC
AACGTCTACATGCCCACGAGCCAGCCGCCGCCACCTCCCTACTACCCACCGGAAGATAAGAAGACCCAG**TAG**GCC
CTCCTGCCTCCCTGCCTCCCACCCTCATCTCTCTACCCTACCCCTCCCATCGGGGCTGTGCTGGGGCTTGGGGAG
GGGAGGGGGCGCCTTGTTCTCCCTCCAGGTCTGATCATAAACAATTACCAGGAACTAGCATTGTGGGACATTAGG
GCCCCCGGCCTCGGGAGAGGTGCCGCCCAGCTTCCCATGCCAGCCCGGAGCCCACAGTGCTGCCCAGCGTACCTC
CCTCACCGTCTGGGGCTCTTCTGGGAGCACGGAGCATCCCCTGTTCCTGTTTCACTCTCAGCTTCTCCCCTCGAA
GGGACTCTCTGGCCACCTCCTCCACCGCAGTCCAGCTCCCTCAGTCTGGCACCCACTGCTACACTCAGCCTCATG
AGCCACTTCAGACCAGCCAGAAGGAGCTTCCTGACTGGAACCAGAGAATGCATGTCTGTCCACTTGGTGGCTGCT
GGGTGGGGCCGGGAACAAGGGCCCCTGACCCTGTGTGCTGGCCGGGACCTGCCACCAGCCCCCCAGCCTGCTTCT
TCCCCTTAAGCTTTGTGCCCCTGGATGCGCTAACATTCACTCTTGTTTGTCCCTGGACTGGCCATGAAGTGAGGA
GATGGTTATTTAAAGAGAATTCCCTATTTATTTGACAAAAAATCCAGTTAATATATTAATGTGAAATAAACCCTG
TTTGCACCTCG

5395/6881
FIGURE 4974

MALNKNHSEGGGVIVNNTESILMSYDHVELTFNDMKNVPEAFKGTKKGTVYLTPYRVIFLSKGKDAMQSFMMPFY
LMKDCEIKQPVFGANYIKGTVKAEAGGGWEGSASYKLTFTAGGAIEFGQRMLQVASQASRGEVPSGAYGYSYMPS
GAYVYPPPVANGMYPCPPGYPYPPPPPEFYPGPPMMDGAMGYVQPPPPPYPGPMEPPVSGPDVPSTPAAEAKAAE
AAASAYYNPGNPHNVYMPTSQPPPPPYYPPEDKKTQ

5396/6881
FIGURE 4975

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GGTGCGCAAGGGCACGGACCTCGGAGCTCTCCCCGTTCCCCCGCCGGCCATGAACGCCGCTCGCACCGGCTACCG
AGTCTTCCTCGCCAACTCCACGGCCGCCTGCACGGAGCTGGCCAAGCGCATCACAGAGCGCCTTGGTGCTGAATT
GGGGAAGTCTGTTGTATATCAAGAGACCAATGGAGAAACAAGAGTTGAAATAAAAGAATTTGTTCGTGGCCAAGA
TATTTTCATTATACAGACAATACCCAGAGATGTGAATACAGCTGTGATGGAGTTGCTCATCATGGCTTACGCACT
GAAGACTGCCTGTGCCAGGAACATTATTGGGGTCATCCCCTACTTCCCCTACAGCAAGCAGAGCAAGATGAGGAA
GAGGGGTTCCATTGTGTGCAAGCTGCTAGCATCCATGCTGGCGAAAGCAGGTTTAACTCACATTATCACTATGGA
TCTTCATCAAAAGGAAATACAAGGCTTTTTCAGCTTTCCTGTGGACAACCTTAGAGCCTCACCTTTCCTGCTTCA
GTATATCCAGGAAGAAATTCCAAATTACAGAAATGCAGTCATTGTAGCTAAGTCTCCTGATGCTGCAAAGAGGGC
CCAGTCCTATGCGGAGAGACTGCGTCTGGGTTTGGCCGTCATTCACGGGGAAGCTCAGTGCACGGAACTGGACAT
GGACGATGGTCGTCACTCCCCGCCTATGGTCAAAAATGCTACTGTGCACCCAGGCCTGGAGTTGCCATTGATGAT
GGCCAAAGAGAAGCCACCGATAACTGTAGTTGGAGATGTTGGAGGCCGCATCGCAATCATCGTGGATGACATTAT
TGACGATGTGGAGAGTTTTGTTGCTGCCGCGGAGATCCTGAAAGAGAGAGGCGCCTATAAGATCTATGTTATGGC
CACCCACGGCATCCTGTCTGCAGAGGCCCCTCGCCTGATTGAGGAGTCCTCCGTAGACGAGGTGGTGGTGACGAA
TACTGTCCCTCATGAGGTTCAGAAGCTGCAATGTCCCAAGATAAAGACTGTGGATATCAGTTTGATTCTTTCTGA
AGCCATTCGGAGAATCCACAATGGAGAGTCCATGGCCTACCTTTTCCGAAACATCACTGTGGATGACTAGCTTTC
ACGAGGGTCTCGACCCTGGACCTCCTGAGGGAAACATGGAAAAAGCAGTGCCATGAGTGATACAGTGTTTCCTTG
CAAGGGAGGACTCGAAACAGCCTGGAGTTAGATATCTTCTTTTGCCCGGATTGATGGGGAGGAGGGATTAAAAGA
GTCAGGAAGAAGACAGAGCTAATGGATAAATATCATAACATGGCCTTACATGTCTGCTGTCATCAGCCCTGTTCC
TTAAAAGTTCTAGCTGCTTTCTTAAAAATAATCTGAAAATCTTATTGATACTAAAGAGGAGTTAAAGGCACATAA
AGTCTTAACTCTATAATGTTCATTTAGTTGTTTCAGCTCCAGGGAAATGGAGGTATTGATGTTGAACCTGGTTAG
GGAAGCTGAGCGCCTGTGGCCCTATTACTATCCAGTGGCCTCTCCCAAATCAACTTCAAGTCTTTTATAGAGAA
TCGTATTTTTCTTTCAGAAATTGCTATGCCTACAGCCATTGAAAAATGAAGCATTCATGTTGTTACATCTTCCAA
GGATGTCAGATTAGAAAATAGCATCCCACCTCTGGGTATCTGAGTGGCTCTGAAGTTGCAAATAAAATAATTTGT
TGT
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FIGURE 4976

MNAARTGYRVFLANSTAACTELAKRITERLGAELGKSVVYQETNGETRVEIKEFVRGQDIFIIQTIPRDVNTAVM
ELLIMAYALKTACARNIIGVIPYFPYSKQSKMRKRGSIVCKLLASMLAKAGLTHIITMDLHQKEIQGFFSFPVDN
LRASPFLLQYIQEEIPNYRNAVIVAKSPDAAKRAQSYAERLRLGLAVIHGEAQCTELDMDDGRHSPPMVKNATVH
PGLELPLMMAKEKPPITVVGDVGGRIAIIVDDIIDDVESFVAAAEILKERGAYKIYVMATHGILSAEAPRLIEES
SVDEVVVTNTVPHEVQKLQCPKIKTVDISLILSEAIRRIHNGESMAYLFRNITVDD

5398/6881
FIGURE 4977A

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CGCCTCCCCGCGCCTCGTTCGCCGCCGCTGTCGCCGCCGCCGCCCGAGACTCGCGCAGAGCAGTTATGGCGGATC
CCGCAGCCCCCACGCCCGCAGCTCCCGCTCCAGCCCAGGCCCCGGCTCCAGCCCCGGAGGCAGTCCCGGCCCCAG
CCGCAGCCCCCGTCCCGGCGCCGGCGCCCGCCTCGGACTCGGCCTCCGGGCCGTCCTCGGACTCCGGCCCAGAAG
CCGGCTCGCAGCGCCTGCTGTTTTCTCACGACCTGGTGTCGGGCCGTTACCGTGGCTCCGTGCACTTCGGGCTGG
TGCGCCTCATCCACGGCGAGGACTCGGACTCGGAGGGCGAGGAGGAGGGCCGCGGGAGCTCGGGGTGCTCCGAGG
CCGGGGGCGCGGGCCACGAGGAGGGCCGGGCCAGCCCCCTGCGCCGCGGCTACGTGCGCGTCCAGTGGTACCCGG
AGGGCGTCAAGCAGCATGTGAAGGAGACCAAGCTGAAACTAGAGGACCGTTCTGTGGTGCCCCGAGATGTGGTCC
GGCACATGCGATCCACCGACAGTCAGTGTGGCACGGTGATCGACGTCAACATCGACTGTGCCGTCAAGCTCATCG
GCACCAACTGCATCATCTATCCCGTCAACAGCAAGGACCTGCAGCACATCTGGCCCTTCATGTATGGGGACTACA
TTGCCTATGACTGCTGGCTGGGGAAGGTCTACGACTTGAAGAACCAGATCATCCTGAAGCTATCCAACGGCGCCA
GGTGCTCCATGAACACGGAAGATGGCGCCAAGCTCTACGACGTCTGCCCGCACGTCAGCGACTCGGGTCTCTTCT
TCGATGATTCCTATGGCTTCTACCCAGGCCAGGTGCTCATTGGCCCTGCCAAGATCTTCTCCAGCGTCCAGTGGC
TGTCAGGTGTCAAGCCCGTGCTCAGCACCAAGAGCAAGTTCCGAGTGGTGGTGGAAGAGGTGCAGGTTGTAGAGT
TGAAAGTTACATGGATTACCAAGAGTTTCTGTCCAGGGGGCACGGACAGCGTCAGCCCCCCACCCTCTGTCATCA
CCCAGGAAAACCTAGGCAGGGTGAAGCGTCTCGGATGCTTTGACCATGCTCAGCGGCAGCTTGGGGAGCGCTGTC
TGTATGTCTTCCCAGCCAAGGTAGAGCCAGCCAAGATTGCCTGGGAATGTCCAGAAAAAAACTGCGCCCAGGGGG
AGGGCTCTATGGCCAAGAAGGTGAAGCGCCTGTTGAAGAAGCAGGTTGTGCGGATCATGTCATGCTCCCCAGACA
CCCAGTGTTCCCGGGACCATTCCATGGAAGACCCAGACAAGAAGGGGGAATCCAAAACCAAGAGCGAAGCGGAGT
CTGCCAGCCCTGAGGAGACGCCCGATGCTCTGCCAGTCCAGTGGAGATGCAGGACGAGGGTGCAGAGGAGCCCCA
CGAGGCAGGAGAGCAGCTGCCCCCATTCCTGCTAAAAGAAGGCAGAGATGACAGGCTGCACTCGGCAGAGCAGGA
CGCAGATGATGAGGCTGCTGATGACACGGACGACACCAGTTCGGTGACCTCCTCTGCCAGCTCCACCACTTCCTC
CCAGAGCGGCAGCGGCACGAGTCGCAAAAAGAGCATCCCCTTGTCCATCAAGAACTTAAAGCGCAAACACAAGAG
GAAGAAGAATAAAATCACTCGAGACTTCAAGCCAGGGGACAGGGTGGCAGTGGAGGTGGTGACCACGATGACCTC
AGCCGACGTGATGTGGCAGGATGGCTCCGTGGAATGCAACATCCGCTCCAACGACCTCTTCCCTGGCACCACCTG
ACAACAACGAGTTCTGCCCTGGAGACTTCGTGGTAGATAAGCGAGTCCAGAGCTGTCCAGACCCTGCTGTCTACG
GTGTGGTACAGTCTGGGGACCACATCGGCCGTACCTGCATGGTGAAGTGGTTCAAGCTGAGGCCGAGTGGGGACG
ACGTGGAGCTGATTGGAGAAGAGGAAGATGTGAGTGTTTACGACATTGCTGACCACCCTGACTTTAGGTTCCGTA
CAACTGACATCGTCATCCGCATCGGCAATACTGAGGATGGGGCTCCTCACAAGGAGGATGAGCAGCCATCGGTGG
GCCAGGTGGCCCGTGTGGACGTCAGCAGCAAGGTGGAGGTGGTGTGGGCTGACAACTCAAAGACCATCATCCTGC
CCCAGCACTTGTACAACATAGAGTCTGAGATTGAGGAGTCAGACTACGATTCGGTAGAAGGCAGCACCAGCGGGC
ATCCTCGGATGAATGGGAAGATGATAGTGACAGCTGGGAGACGGACAATGGGCTGGTGGAGGACGAGCACCCCAA
GATAGAGGAGCCCCCCATCCCACCCCTGGAGCAGCCGGTGGCCCTGAGGACAAGGGAGTGGTGATCAGTGAAGAG
GCAGCCACAGCCGTAXCXCTAGGGGGCTGTGGCCATGGCTGCCCCCATGGCCGGGCTGATGGAGAAGGCTGGCAA
GGACGGGCCACCCAAGAGCTTCCGGGAGTTGAAAGAGGCCATCAAGATCCTGGAGAGCCTCAAGAACATGACTGT
GGAGCAGCTGCTGACGGGCTCGCCCACCTCTCCGACTGTGGAGCCTGAGAAGCCAACTCGGGAGAAGAAGTTTCT
GGATGACATCAAGAAGCTACAGGAAAACCTCAAGAAGACCCTGGACAATGTGGCCATTGTAGAGGAGGAGAAGAT
GGAAGCAGTGCCCGACGTAGAGCGCAAGGAGGACAAGCCCGAGGGCGAGTCACCTGTGAAGGCTGAGTGGCCCAG
CGAAACCCCGGTGCTGTGCCAGCAGTGTGGCGGCAAGCTGGCGTCACCTTCACCAGCGCCAAGGGCGAGGTCTTC
TCCGTACTGGAGTTTGCACCCTCAAATCATTCTTTTAAGAAAATTGAGTTCCAGCCTCCAGAAGCCAAGAAGTTC
TTCAGCACAGTGCGGAAGGAGATGGCGCTGCTGGCTACCTCACTGCCTGAGGGCATCATGGTCAAGACTTTTGAA
GATAGAATGGACCTCTTCTCAGCTCTCATCAAGGGCCCCACTCGAACCCCCTACGAGGATGGCCTCTACTTGTTT
GACATCCAGCTCCCCAACATCTACCCAGCCGTGCCCCCCCACTTCTGCTACCTCTCCCAATGCAGTGGCCGCCTG
AACCCCAACCTGTATGACAATGGGAAGGTGTGTGTCAGCCTCCTGGGCACCTGGATTGGAAAGGGGACAGAGAGG
TGGACAAGCAAGTCCAGCCTTCTCCAGGTGCTCATCTCCATCCAAGGTCTGATCCTGGTAAATGAACCATACTAC
AACGAAGCCGGCTTCGACAGTGACCGAGGCCTGCAGGAAGGCTATGAAAACAGTCGCTGTTACAATGAGATGGCG
CTGATCCGCGTGGTGCAGTCCATGACCCAGCTGGTGCGGCGGCCCCCCGAGGACTTTGAGCAGGAGATCAGGCAA
CACTTTAGCACTGGTGGCTGGCGGCTGGTGAACCGTATCGAGTCCTGGCTGGAAACCCATGCCCTGCTGGAGAAG
GCCCAGGCACTGCCCAACGGGGTGCCCAAGGCCAGCAGCTCGCCAGACGCCCCAGCTGTAGCCGAGCTGTCAGAC
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FIGURE 4977B

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TCCGGCCAACAAGAACCTGAGGATGGAGGGCCAGCCCCAGGAGAGGCCTCCCAGGGCTCAGACTCAGAGGGCGGT
GCCAGGGCCTGGCCTCAGCTAGCAGGGACCACACAGACCAGACTTCGGAGACCGCACCAGACGCATCGGTGCCAC
CCAGTGTGAAACCAAAGAAGCGGAGAAAGAGCTACCGGAGCTTCTTACCTGAGAAGAGTGGCTACCCTGACATCG
GCTTCCCCCTCTTCCCACTTTCCAAGGGTTTCATCAAGAGCATCCGGGGTGTCTGACGCAGTTCCGGGCTGCCCT
GCTAGAGGCAGGCATGCGGXAGTGCACAGAGGACAAGTAGCTGCCAGGCACAGAGGAAAGAGCATCACCGTGGGA
GAGGCCAGCCGCCGCCTGCTCACTCCCCCCCGGAATCACCCCTCTTCCCATGCCCCTCTGTCCCCACTGCAAACC
CACTGCCCTCTTCTCCCCAAGGTGAGTTTGATGCTGAAGTGCAAGAAGTGTGTTGAGATGCTGCCGTTTCTATTT
TGAAGCGAGCTTTCAACAGGCGGGTCCCCTGTGGCAAAGAAAATCGGAACCCTGTTGCCGATTTTCCATTTGTCA
CCCCAGCAGAATGTCCGGCACTTGCTCCCTTGCTGCCCCTTCTCAGGTCAGAGGCGGGTGTTCCAGGGCCTGCCG
CGGGGCTCTCTGGGCCGGTTCCCTGCAGACCCGCAGACGAGCACATGTGCCTTGCATGAAGTGTGGGTTGCGCCA
ACAATTCCCCTGGTCCCTTTCAACCTGTTTAGTTCAACTCAAGCCTCCCTGTGTCCCAGACCCTCCTGCTGCCAC
CACCACCCAGGTCCTCCCTAGTCCTCCAGCGTCAACACTATCCCTTGGGGAGTTGTAGCTGCTGTCACTGACTCC
CGGCTATACATGGCCTGTCGACCACGTTATAGCCCTCAGGCCTGTTGAACTTGCTCTCTAAGAGAGGTTGGGACC
AGGCTAGGTTCCGGGTGACGCCCAGGAGAGGTGGTGGCCTTCACACATGCACATGGAGTTGAGGACCAGGGAGCT
GCAGGGAAAGCAACAGCTATAGGTGCCTTGCTCTTCTGTCGGAGGCTGCTGGGGGCAAGAGCAGCTGCACAAGGC
CAGGGCAAGTGCTAGGGCCCCTCCCCCATCACATGGTCACACTGGGACAGGCGTGCAGCTCACTGAACTCCAAGC
GAGCCAGCCCTCTCTTGGACTAGAAGGCCTACTGTCAGCCCTTCGCTTACAAACTGCAGGCTCAATCCGAAGGGG
ACGGCCGGCGGGGGCTCTCCTAGTGCCCAGAGACAGGCCCAGAGGTTTACAAGTTTTCTAAGCTTTTGATAATGT
GAAGCTCCAGGCCGAGAGGATGCTGTTGAGCACATTGCAGCTATGTAATTTTTGGTGTATGTATGTAATATTTAA
GGTTGGAAAAAAAACTCAAAAGCAAAGATATTAACTCTTATTAGAAAAAAAGACAAAAAAAAAGCCAAAGCATGA
TGCGTCTTGTCAGCCTTAAGTGGGCTCCACACCTGTGCTGTGCTGTGACCGCCCAGCCAGCAGAGCTGCGGGAGG
ATGGAGCCGGACCACACACCGTGGCATTTGGAACCGAGTCGGTATCTTGTTTGAGAAACACCCGGAGTGACTGGT
GGGGCTGTGCTTCCCAGTGCATTGTACATGTGGAGATGTGAATGCCTACTGCTTACGATATCTGTATAAAGTGCT
GTGTGATTAAACTTTTTTTTACTTGC
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FIGURE 4978

CAGGACGCACATGCAGAACATCAAGGACATTTGGGTCAGCGTCTCCTTCGTGGTGTACCTTGTGAAGCGCCTCAA
CGAGGGCAGCAGCGCCATGGCCAACGGCATGGAGGAGAAGGAGCCAGAAGCCCCGGAGATGTAGACGCCACCCTG
CCCACCCCCGGGATCCTGCCCCCAAGTCATTTCCGTCCCCCCCCAGGCCCTCCCACCACCCCATTTTATTTTATA
TGATTTTCTCCATTTGTCATCGTTCCCCACCCCTTCGACATGCTGCCAGGAAACAAGGGAAGGGGCCTCCCTCCG
AGTGAGTCAGTGATGAGGCCGCGGCCTCCCCGAGGTTGTGGGGAGGCTGCACTGGAGCCACAGGCAGGGGTGAGA
GCACCCACTGAATTGACATGACCCTCTGTCCCCAGGCCTGGCTCCCCGAGGGCTCAGAAGAGCAGCTTCGGTGTG
CAGATCATCCGTCTGTGTGGGGTTCTCAGTGCCGGAGGCCTTGGGGTGGGGGCCAGGCCTCGCACTTGCAGAGGA
GCCCAGTGGGCTGCACGCTCCCCTCCATCCCCATCGGCCCTGTCCCCTGGAGTGTGTCAGAGCCCAGGGGAGAAT
GCAGCCCACCAGGAGCACCTGGACCCCCTGCCCGCCACATGGTGTGGCCATCACTCAGCCCCTACCCCTGCCCTG
CTCCTAAGGGTAGAAAACTCCAGGGTCCCCTGCCACCGACTGCCCAGCCACTCCAAGCCCCCTGGCAGCTGCCCC
TCCTGGAGCAGAAAGTGCCTTTATCTCAGCCATCCGCAGACTGCTTGGCCAGATGCGGGGACAGGCTGGAATGAG
GGAGGCGTCTTCATCTCCCTGCCATCCCCCTCTCACGCCACCCCCGCCCCCACCGGGCTGCAGGTGCTGCTGATG
CGCTGGGATCTGATTGAGGATAAAAAGGAAGGAGAGATGACCCCTACCCCCTCATCCCCCAGTTTTGAAAAGGTC
TAAGCAAGTGAGTCTGGTGGAGGAGCTGAGGGAGGGGAGCCATGGAAGGTGCCAGAAGGAAGGTTGGCGGGGGCAC
GTGTGGGCCGTGGCTTGGGCTGGTCAGAGTGGCGTGAGCTGCCCGGCGCCTGCCCTGCCCAAGTGACCAGGGAAG
TGTGTGTGTGTCCATGTGTATGCGTGTCCGTCTGTCTGTCTAGTGTCTGGGTTTGGCCCAAGACTGGGCTGTAGT
TACATTAATGCCCAGCCAGCCACCCCTGCCACTCACCCTTCCTGGCCCAGGCCTTGCTGACTCTCTGAGCTGGGG
AGGTGGGAGGCCAGGCGAGCCTGACTCTGTTGATCTACCCGTGCCTGGGCCCCTCCCCTCAGAGCCCATGGTAAC
GAACCCCTAGAAAGGAGAGAACGGGCGTCAGGGGTGCACAGTCCACAGCTGAAGAGCAAGGTTTCGTGGCAGCAC
GGCCCGGCCCCTCACCCTCTGTCCCCACGAGGGGACCCATGGGGGCTGTCTTTGCAGGGCACAGATGACCAAAGT
CCCTTCCTGCTTCCTGTTACCTGTCTTGCTCCTGGGGAGAAAGAGGGGCCTGATGAGACTCCACTCAGGTGCACA
CATCACCAGGTGCATCTGCAGGCACCGGGCTGGCTGCTTGCAGCCAGGAGAAGGTCAGCGAGAAGGAGTGTATGA
GTGTGAGTGTGTGTGCATGGAAGTTGGGGCACTGGGCGTCTGACTCCCTCCCCACCCAAGAGAGGAAGGACCCCT
CACCACCCCCACTGGTGAGACAGTTTACTTTGCCAACTTGCCATGTTTTTGCCAAAACCAAGATTTTGAAGGAAA
TGAGTGGCCAGCGCCAGGGCCCAGGCCATGTGGCCTGCCCAGCCTCAATGTCACTTGGTGGCGGGGTGGGGTGGG
GGTGGGCAGCAGCATCCCAGCCTTGAGATGCTTCACTTTCCTTCTCTGTAACCAGACTTTGAAAAATTGTTCGTT
TCATCAGGCTCTGTTCCTCAATGGCCTTTTGCTACGTGCCTCCCGAGAAATTTGTCTTTTTGTATAAATGACAAA
GTGTTGAAAATGTATTTCCTGAAATAAATGTTTCAAATGCAGAAACCC

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FIGURE 4979

MGSFRTSSALKRSFEVEEVETPNSTPPRRVQTPLLRATVASSTQKFQDLGVKNSEPSARHVDSLSQRSPKASLRR
VELSGPKAAEPVSRRTELSIDISSKQVENAGAIGPSRFGLKRAEVLGHKTPEPAPRRTEITIVKPQESAHRRMEP
PASKVPEVPTAPATDAAPKRVEIQMPKPAEAPTAPSPAQTLENSEPAPVSQLQSRLEPKPQPPVAEATPRSQEAT
EAAPSCVGDMADTPRDAGLKQAPASRNEKAPVDFGYVGIDSILEQMRRKAMKQGFEFNIMVVGQSGLGKSTLINT
LFKSKISRKSVQPTSEERIPKTIEIKSITHDIEEKGVRMKLTVIDTPGFGDHINNENCWQPIMKFINDQYEKYLQ
EEVNINRKKRIPDTRVHCCLYFIPATGHSLRPLDIEFMKRLSKVVNIVPVIAKADTLTLEERVHFKQRITADLLS
NGIDVYPQKEFDEDSEDRLVNEKFREMIPFAVVGSDHEYQVNGKRILGRKTKWGTIEVENTTHCEFAYLRDLLIR
THMQNIKDITSSIHFEAYRVKRLNEGSSAMANGVEEKEPEAPEM

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FIGURE 4980

CAGATGTAGTTTTTTCCGCACGTGCACGCCTTCCCTCCTCCCCGCCCTCAGGGTCCACGGCCACCATGGCATATT
AGGGGCAGCAGTGCCTGCGGCAGCATTGGCCTTTGCAGCGGCGGCAGCAGCACCAGGCTCTGCAGCGGCACCCCC
CAGCGGCTTAAGCCATGGCGCTTCCCACGGCATTCAGCAGCAGCATTGCTGTAACCGACAAAGACACCTTCGAAT
TAAGCACATTACTCGATTCCAGCAAAGCACCGCAAC**ATG**ACCGAAATGAGCTTCCTGAGCAACGAGGTGTTGGTG
GGGGACTTGATGTCCCCCTTCGACCAGTCGGGTTTGGGGGCTGAAGAAAGCATAGGTCTCTTAGATGACTACGTG
GAGGTGGCCAAGCACTTCAAACCTCATGGGTTCTCCAGCGACAAGGCTAAGGCGGGCTCCTCCGAATGGCTGACT
GTGGATGGGTTGGTCAGTCCCTCCAACAACAGCAAGGAGGATGCCTTCTCTGGGACACATTGGATGTTGGAGAAA
ATGGATTTGAAGGAGTTCGACTTTGGTGCCCTGTTGGGTATAGATGACCTGGAAACCATGCCAGATGACCTTTTG
ACCACGTTGGATGACACTTGTAATCTCTTTGCCCCCCTAGTCCAGGAGACTAATAAGGTGCCCCCCCAGATGGTG
AACCCAATTGGCCATCTCCCAGAAAGTTTAACAAAACCCGACCAGGTTGCCCCCTTCACCTTCTTGCAACTTCTT
CCCCTTTCCCCAGGGGTCCAGTCCTCCACTCCAGATCATTCCTTTAGTTTAGAGCTGGGCAGTGAAGTGGATATC
ACTGAAGAAGATAGGAAGCCGGACTCCACTGCTTACGTTGCCATGATCCCTCAGTGCATAAAGGAGGAAGACACC
CCTTCAGATAATGATAGTGGCATCTGTATGAGCCCAGAGTCCTATCTGGGGTCTCCTCAGCATAGCCCCTCTACC
AGGGGCTCTCCAAATAGGAGCCTCCCATCTCCAGGTGTTCTCTGTGGGTCTGCCCACCCCAAACCTTACGATCCT
CCTGGAGAGAAGATGGTAGCAGCAAAAGTAAAGGGTGAGAAACTGGATAAGAAGCTGAAAAAAATGGAGCAAAAC
AAGACAGCAGCCACTAGGTACCGCCAGAAGAAGAGGGCGGAGCAGGAGGCTCTCACTGGCGAGTGCAAAGAGCTG
GAAAAGAAGAACGAGGCTCTAAAAGAGAGGGCAGATTCCCTGGCCAAGGAGATCCAGTACCTGAAAGATTTGATA
GAAGAGGTCCGCAAGGCAAGGGGGAAGAAAAGGGTCCCC**TAG**TTGAGGGTAGGTCAGGAGTGTCAACGTGCTTGT
ACATAGAGTGTCTGCTGTAGCTGTGTGTTCCAATAAATTATTTTGTAGGG

5403/6881
FIGURE 4981

MTEMSFLSNEVLVGDLMSPFDQSGLGAEESIGLLDDYVEVAKHFKPHGFSSDKAKAGSSEWLTVDGLVSPSNNSK
EDAFSGTHWMLEKMDLKEFDFGALLGIDDLETMPDDLLTTLDDTCNLFAPLVQETNKVPPQMVNPIGHLPESLTK
PDQVAPFTFLQLLPLSPGVQSSTPDHSFSLELGSEVDITEEDRKPDSTAYVAMIPQCIKEEDTPSDNDSGICMSP
ESYLGSPQHSPSTRGSPNRSLPSPGVLCGSAHPKPYDPPGEKMVAAKVKGEKLDKKLKKMEQNKTAATRYRQKKR
AEQEALTGECKELEKKNEALKERADSLAKEIQYLKDLIEEVRKARGKKRVP

5404/6881
FIGURE 4982

CGCTAGCCTGCGGAGCCCGTCCGTGCTGTTCTGCGGCAAGGCCTTTCCCAGTGTCCCCACGCGGAAGGCAACTGC
CTGAGAGGCGCGGCGTCGCACCGCCCAGAGCTGAGGAAGCCGGCGCCAGTTCGCGGGGCTCCGGGCCGCCACTCA
GAGCT**ATG**AGCTACGGCCGCCCCCCTCCCGATGTGGAGGGTATGACCTCCCTCAAGGTGGACAACCTGACCTACC
GCACCTCGCCCGACACGCTGAGGCGCGTCTTCGAGAAGTACGGGCGCGTCGGCGACGTGTACATCCCGCGGGATC
GCTACACCAAGGAGTCCCGCGGCTTCGCCTTCGTTCGCTTTCACGACAAGCGCGACGCTGAGGACGCTATGGATG
CCATGGACGGGGCCGTGCTGGACGGCCGCGAGCTGCGGGTGCAAATGGCGCGCTACGGCCGCCCCCCGGACTCAC
ACCACAGCCGCCGGGGACCGCCACCCCGCAGGTACGGGGGCGGTGGCTACGGACGCCGGAGCCGCAGCCCTAGGC
GGCGTCGCCGCAGCCGATCCCGGAGTCGGAGCCGTTCCAGGTCTCGCAGCCGATCTCGCTACAGCCGCTCGAAGT
CTCGGTCCCGCACTCGTTCTCGATCTCGGTCGACCTCCAAGTCCAGATCCGCACGAAGGTCCAAGTCCAAGTCCT
CGTCGGTCTCCAGATCTCGTTCGCGGTCCAGGTCCCGGTCTCGGTCCAGGAGTCCTCCCCCAGTGTCCAAGAGGG
AATCCAAATCCAGGTCGCGATCGAAGAGTCCCCCCAAGTCTCCTGAAGAGGAAGGAGCGGTGTCCTCT**TAA**GAAA
ATGATGTATCGGCAAGCAGTGTAAACGGAGGACTTGGGGAAAAAGGACCACATAGTCCATCGAAGAAGAGTCCTT
GGAACAAGCAACTGGCTATTGAAAAGGTTATTTTGTAACATTGTCTAACTTTTTACTTGTTTAAGCTTTGCCTC
AGTTGGCAAACTTCATTTTATGTGCCATTTTGTTGCTGTTATTCAAATTTCTTGTAATTTAGTGAGGTGAACGAC
TTCAGATTTCATTATTGGATTTGGATATTTGAGGTAAAATTTCATTTTGTTATATAGTGCTGACTTTTTTTGTTT
GAAATTAAACAGATTGGTAACCTAATTTGTGGCCTCCTGACTTTTAAGGAAAACGTGTGCAGCCATTACACACAG
CCTAAAGCTGTCAAGAGATTGACTCGGCATTGCCTTCATTCCTTAAAATTAAAAACCTACAAAAGTTGGTGTAAA
TTTGTATATGTTATTTACCTTCAGATCTAAATGGTAATCTGAACCCAAATTTGTATAAAGACTTTCAGGTGAAA
AGACTTGATTTTTTGAAAGGATTGTTTATCAAACACAATTCTAATCTCTTCTCTTATGTATTTTGTGCACTAGG
CGCAGTTGTGTAGCAGTTGAGTAATGCTGGTTAGCTGTTAAGGTGGCGTGTTGCAGTGCAGAGTGCTTGGCTGTT
TCCTGTTTTCTCCCGATTGCTCCTGTGTAAAGATGCCTTGTCGTGCAGAAACAAATGGCTGTCCAGTTTATTAAA
ATGCCTGACAACTGCACTTCCAGTCACCCGGGCCTTGCATATAAATAACGGAGCATACAGTGAGCACATCTAGCT
GATGATAAATACACCTTTTTTTCCCTCTTCCCCCTAAAAATGGTAAATCTGATCATATCTACATGTATGAACTTA
ACATGGAAAATGTTAAGGAAGCAAATGGTTGTAACTTTGTAAGTACTTATAACATGGTGTATCTTTTTGCTTATG
AATATTCTGTATTATAACCATTGTTTCTGTAGTTTAATTAAAACATTTCTTGGTGTTAGCTTT

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FIGURE 4983

MSYGRPPPDVEGMTSLKVDNLTYRTSPDTLRRVFEKYGRVGDVYIPRDRYTKESRGFAFVRFHDKRDAEDAMDAM
DGAVLDGRELRVQMARYGRPPDSHHSRRGPPPRRYGGGGYGRRSRSPRRRRRSRSRSRSRSRSRSRSRYSRSKSR
SRTRSRSRSTSKSRSARRSKSKSSSVSRSRSRSRSRSRSRSPPPVSKRESKSRSRSKSPPKSPEEEGAVSS

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FIGURE 4984

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CTTGGACTTGGACCTTCGTGCGGATCTGGACTTGGAGGTCGACCGAGATCGAGAACGAGTGCGGGACCGAGACTT
CGAGCGGCTGTAGCGAGATCGGCTGCGAGACCTGGAACGGCTCCGACTCCGGGATCGGCTGCGGCGACGCCGCCT
AGGGCTGCGGGCGGGACGAGCAAGCACAGCGGGGTTAATTCCAGGCAGCGGGGCCGGCCCCGCCCGCGCGXCTXC
CCGCCCAGGCCGCCATTATCTCGCCGCCAGACGCCATTTCCCCAGTCGCGAGGCGGGGTCCTCCGCCCCGCGCCG
CCCACACCCCGGCCACTCCCGGGTCGCAGACGGCGGAAGCTCGCGGGGTGGCCGGAGGGTCGCGAGACGCGGCGT
GCACCCCCGCCCCXGXTXCCGGGCCCGCACCACGTGCTTCGCCGCGGACCTTTGTGAGGTCGCCCGGGCCTCCCG
CGCGCCCCGCCCCGCCTCCCGCGGTCCCCTCAGCCCCGTTTACCTGCGGCTCCGGCGTCCGTAGCCACCGCCCCC
GTACCTGCGGGGTGGCGGTCCCCGGCGGCTGTGGTGTGAGTCCGGGGGGCGGCCGTAGCGCGCCATTTGCACCCG
CAGCTCGCGGCCGTCCAGCACGGCCCCGTCCATGGCATCCATAGCGTCCTCAGCGTCGCGCTTGTCGTGAAAGCG
AACGAAGGCGAAGCCGCGGGACTCCTTGGTGTAGCGATCCCGCGGGATGTACACGTCGCCGACGCGCCCGTACTT
CTCGAAGACGCGCCTCAGCGTGTCGGGCGAGGTGCGGTAGGTCAGGTTGTCCACCTTGAGGGAGGTCATACCCTC
CACATCGGGAGGGGGGCGGCCGTAGCTCATAGCTCTGAGTGGCGGCCCGGAGCCCCGCGAACTGGCGCCGGCTTC
CTCAGCTCTGGGCGGTGCGACGCCGCGCCTCTCAGGCAGTTGCCTTCCGCGTGGGGACACTGGGAAAGGCCTTGC
CGCAGAACAGCACGGACGGGCTCCGCAGGCTAGCGCACCTGAGTAACAACTGGGCGGGCAGCCGGCCTCTGCGCC
CGTTTATATCGCTCCTCACAAAATGGCGCCCGCGCCACCCGGAAATGAAACCTTCTGATTGGCCCACCGCGCCCC
GCTTCGTAACGACCCTGCCGCGCGCCCCGCCCCTACCCGAAGCGCCTGCGCACAGCCCGGCGGCGGGCGGGCCAAAAA
GCGCGGAGTCACGGCTGGAGGGAGGGGGAGCGGAATTAGCGGGCAGTTGGAAAGCCCGCGAAACGCTTTTCCGC
CTGGGAGGCCGGACGATCGCGATTGGGCAGGAGXGXAAGAGGAGGTGCTCCCCATCTGGGCCCCCACCTTTTTTT
CATGCCAATACTCCAAGTTCACGCCCCTTTTTGCTCAGCCGTCAGCCCCGTCTCCGTCTGAAGAGTGCTTCTGC
CCTCATTTGCCTCTCCCTGTGACCCCGGCCCCCTCAGACTCCGCTGCGTCGTCTCTCGGCCCCGTCCAGCCGTTC
CTGACTGCTCTTCGCCGGAGTCCGCTTCCCAACCCCCTTTCGCCAGAGCCCGAGAGCTCCGTCGGCTCTGCGTCC
TGGCGGTGGGGACTCCCCGCCGAGCGCTTGCGCGTGCCAGGTCACCCGGGACTACGTTTCCCXAXGCXGXGXGCC
GAGCGGCCGGCGCCGCGGCTGCGGTCAGGTGACCCGGTCGCCTGGCCGCAGTGAGTCAGGCTGGGAGGGCGGGGC
CGCGCCGGCTGCTGCGGCTGGCACTTGGCCCTTTAATCCCCTTCGTGGGCCCCTCAACCTGGAGCGGATAAATTC
TTGGCGCTTCTXCCGGGGGTTGTGCTCTTCCGTACTCGGATCGCTTCTTAGGAGTATCCTAACTGCCGGTGGGGA
GAACTTCGCCCTAAACCTGGGGTTCCGATCCAGGAACTGGAAGTTGACAGCTTGGCTGCCTGGCTCCTACATCTG
CCTTCTCCACTCACCATCTCATTTCTTTCTCCAGGATTGTCAGTGGCTTCGCCCCGAGGAGAGCTGACTGCCCTG
GGCTGCTGCCTCCGGCAGAGCTGAGCCAAAATGTCCCCGGAATCTAAAAAGCTTTTCAACATCATTATTTTAGGA
GTTGCCTTTATGTTTATGTTCACTGCCTTTCAAACTTGTGG
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FIGURE 4985

CCGCCAGATTTGAATCGCGGGACCCGTTGGCAGAGGTGGCGGCGGCGGC**ATG**GGTGCCCCGACGTTGCCCCCTGC
CTGGCAGCCCTTTCTCAAGGACCACCGCATCTCTACATTCAAGAACTGGCCCTTCTTGGAGGGCTGCGCCTGCAC
CCCGGAGCGGATGGCCGAGGCTGGCTTCATCCACTGCCCCACTGAGAACGAGCCAGACTTGGCCCAGTGTTTCTT
CTGCTTCAAGGAGCTGGAAGGCTGGGAGCCAGATGACGACCCCATAGAGGAACATAAAAAGCATTCGTCCGGTTG
CGCTTTCCTTTCTGTCAAGAAGCAGTTTGAAGAATTAACCCTTGGTGAATTTTTGAAACTGGACAGAGAAAGAGC
CAAGAACAAAATTGCAAAGGAAACCAACAATAAGAAGAAAGAATTTGAGGAAACTGCGAAGAAAGTGCGCCGTGC
CATCGAGCAGCTGGCTGCCATGGAT**TGA**GGCCTCTGGCCGGAGCTGCCTGGTCCCAGAGTGGCTGCACCACTTCC
AGGGTTTATTCCCTGGTGCCACCAGCCTTCCTGTGGGCCCCTTAGCAATGTCTTAGGAAAGGAGATCAACATTTT
CAAATTAGATGTTTCAACTGTGCTCCTGTTTTGTCTTGAAAGTGGCACCAGAGGTGCTTCTGCCTGTGCAGCGGG
TGCTGCTGGTAACAGTGGCTGCTTCTCTCTCTCTCTCTTTTTTGGGGGCTCATTTTTGCTGTTTTGATTCCCG
GGCTTACCAGGTGAGAAGTGAGGGAGGAAGAAGGCAGTGTCCCTTTTGCTAGAGCTGACAGCTTTGTTCGCGTGG
GCAGAGCCTTCCACAGTGAATGTGTCTGGACCTCATGTTGTTGAGGCTGTCACAGTCCTGAGTGTGGACTTGGCA
GGTGCCTGTTGAATCTGAGCTGCAGGTTCCTTATCTGTCACACCTGTGCCTCCTCAGAGGACAGTTTTTTTGTTG
TTGTGTTTTTTTGTTTTTTTTTTTTGGTAGATGCATGACTTGTGTGTGATGAGAGAATGGAGACAGAGTCCCTGG
CTCCTCTACTGTTTAACAACATGGCTTTCTTATTTTGTTTGAATTGTTAATTCACAGAATAGCACAAACTACAAT
TAAAACTAAGCACAAAGCCATTCTAAGTCATTGGGGAAACGGGGTGAACTTCAGGTGGATGAGGAGACAGAATAG
AGTGATAGGAAGCGTCTGGCAGATACTCCTTTTGCCACTGCTGTGTGATTAGACAGGCCCAGTGAGCCGCGGGGC
ACATGCTGGCCGCTCCTCCCTCAGAAAAAGGCAGTGGCCTAAATCCTTTTTAAATGACTTGGCTCGATGCTGTGG
GGGACTGGCTGGGCTGCTGCAGGCCGTGTGTCTGTCAGCCCAACCTTCACATCTGTCACGTTCTCCACACGGGGG
AGAGACGCAGTCCGCCCAGGTCCCCGCTTTCTTTGGAGGCAGCAGCTCCCGCAGGGCTGAAGTCTGGCGTAAGAT
GATGGATTTGATTCGCCCTCCTCCCTGTCATAGAGCTGCAGGGTGGATTGTTACAGCTTCGCTGGAAACCTCTGG
AGGTCATCTCGGCTGTTCCTGAGAAATAAAAAGCCTGTCATTTC

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FIGURE 4986

MGAPTLPPAWQPFLKDHRISTFKNWPFLEGCACTPERMAEAGFIHCPTENEPDLAQCFFCFKELEGWEPDDDPIE
EHKKHSSGCAFLSVKKQFEELTLGEFLKLDRERAKNKIAKETNNKKKEFEETAKKVRRAIEQLAAMD

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FIGURE 4987

GCGGCGGCGGCAGCGGCGGCGACGGCGACATGGAGAGCGGGGCCTACGGCGCGGCCAAGGCGGGCGGCTCCTTCG
ACCTGCGGCGCTTCCTGACGCAGCCGCAGGTGGTGGCGCGCGCCGTGTGCTTGGTCTTCGCCTTGATCGTGTTCT
CCTGCATCTATGGTGAGGGCTACAGCAATGCCCACGAGTCTAAGCAGATGTACTGCGTGTTCAACCGCAACGAGG
ATGCCTGCCGCTATGGCAGTGCCATCGGGGTGCTGGCCTTCCTGGCCTCGGCCTTCTTCTTGGTGGTCGACGCGT
ATTTCCCCCAGATCAGCAACGCCACTGACCGCAAGTACCTGGTCATTGGTGACCTGCTCTTCTCAGCTCTCTGGA
CCTTCCTGTXGGTTTGTTGGTTTCTGCTTCCTCACCAACCAGTGGGCAGTCACCAACCCGAAGGACGTGCTGGTG
GGGGCCGACTCTGTGAGGGCAGCCATCACCTTCAGCTTCTTTTCCATCTTCTCCTGGGTAGGATGGCCAGGGGCC
GGTTCTTGGGTCAAGGXGTGTGGAAGGGGGGGXAXCCCCCAXCCCACCTGTACCCTGCTGTGCTCCCCCTGCAGG
GTGTGCTGGCCTCCCTGGCCTACCAGCGCTACAAGGCTGGCGTGGACGACTTCATCCAGAATTACGTTGACCCCA
CTCCGGACCCCAXACACTGCCTACGCCTCCTACCCAGGTGCATCTGTGGACAACTACCAACAGCCACCCTTCACC
CAGAACGCGGAGACCACCGAGGGCTACCAGCCGCCCCCTGTGTACTGAGCGGCGGTTAGCGTGGGAAGGGGGACA
GAGAGGGCCCTCCCXCTCTGCCCTGGACTTTCCCATGAGCCTCCTGGAACTGCC

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FIGURE 4988·

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CTTACTGCGGGACGGCCTTGGAGAGTACTCGGGTTCGTGAACTTCCCGGAGGCGCAATGAGCTGCATTAACCTGC
CCACTGTGCTGCCTGGCTCCCCCAGCAAGACCCGGGGGCAGATCCAGGTGATTCTCGGGCCGATGTTCTCAGGAA
AAAGCACAGAGTTGATGAGACGCGTCCGTCGCTTCCAGATTXGCTCAGTACAAGTGCCTGGTGATCAAGTATGCC
AAAGACACTCGCTACAGCAGCAGXCTTCTGCACACATGACCGGAACACCATGGAGGCACTGCCCGCCTGCCTGCT
CCGAGACGTGGCCCAGGAGGCCCTGGGCGTGGCTGTCATAGGCATCGACGAGGGGCAGTTTTTCCCTGACATCGT
GGAGTTCTGCGAGGCCATGGCCAACGCCGGGAAGACCGTAATTGTGGCTGCACTGGATGGGACCTTCCAGAGGAA
GCCATTTGGGGCCATCCTGAACCTGGTGCCGCTGGCCGAGAGCGTGGTGAAGCTGACGGCGGTGTGCATGGAGTG
CTTCCGGGAAGCCGCCTATACCAAGAGGCTCGGCACAGAGAAGGAGGTCGAGGTGATTGGGGGAGCAGACAAGTA
CCACTCCGTGTGTCGGCTCTGCTACTTCAAGAAGGCCTCAGGCCAGCCTGCCGGGCCGGACAACAAAGAGAACTG
CCCAGTGCCAGGXAAAGCCAGGGGAAGCCGTGGCTGCCAGGAAGCTCTTTGCCCCACAGCAGATTCTGCAATGCA
GCCCTGCCAACTGAGGGACCTGCGAGGGCCGCCCGCTCCCTTCCTGCCACTGCCGCCTACTGGACGCTGCCCTGC
ATGCTGCCCAGCCACTCCAGGAGGAAGTCGGGAGGCGTXGGAGGGTGACCACACCTTGGCCTTXCTGGGAACTCT
CCTTTGTGTGGCTGCCCCACCTGCCGCATGCTCCCTCCTCTCCTACCCACTGGTCTGCTTAAAGCTTCCCTCTCA
GCTGCTGGGACGATCGCCCAGGCTGGAGCTGGCCCCGCTTGGTGGCCTGGGATCTGGCACACTCCCTCTCCTTGG
GGTGAGGGACAGAGCCCCACGCTGTTGACATCAGCCTGCTTCTTCCCCTCTGCGGCTTTCACTGCTGAGTTTCTG
TTCTCCCTGGGAAGCCTGTGCCAGCACCTTTGAGCCTTGGCCCACACTGAGGCTTAGGCCTCTCTGCCTGGGATG
GGCTCCCACCCTCCCCTGAGGATGGCCTGGATTCACGCCCTCTTGTTTCCTTTTGGGCTCAAAGCCCTTCCTACC
TCTGGTGATGGTTTCCACAGGXAACAACAGCATCTTTCACCAAGATGGGTGGCACCAACCTTGCTGGGACTTGGA
TCCCAGGGGCTTATCTCTTCAAGTGTGGAGAGGGCAGGGTCCACGCCTCTGCTGTAGCTTATGAAATTAACTAAT
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FIGURE 4989

AATCGAAAGTAGACTCTTTTCTGAAGCATTTCCTGGGATCAGCCTGACCACGCTCCATACTGGGAGAGGCTTCTG
GGTCAAAGGACCAGTCTGCAGAGGGATCCTGTGGCTGGAAGCGAGGAGGCTCCACACGGCCGTTGCAGCTACCGC
AGCCAGGATCTGGGCATCCAGGCACGGCC**ATG**ACCCCTCCGAGGCTCTTCTGGGTGTGGCTGCTGGTTGCAGGAA
CCCAAGGCGTGAACGATGGTGACATGCGGCTGGCCGATGGGGGCGCCACCAACCAGGGCCGCGTGGAGATCTTCT
ACAGAGGCCAGTGGGGCACTGTGTGTGACAACCTGTGGGACCTGACTGATGCCAGCGTCGTCTGCCGGGCCCTGG
GCTTCGAGAACGCCACCCAGGCTCTGGGCAGAGCTGCCTTCGGGCAAGGATCAGGCCCCATCATGCTGGACGAGG
TCCAGTGCACGGGAACCGAGGCCTCACTGGCCGACTGCAAGTCCCTGGGCTGGCTGAAGAGCAACTGCAGGCACG
AGAGAGACGCTGGTGTGGTCTGCACCAATGAAACCAGGAGCACCCACACCCTGGACCTCTCCAGGGAGCTCTCGG
AGGCCCTTGGCCAGATCTTTGACAGCCAGCGGGGCTGCGACCTGTCCATCAGCGTGAATGTGCAGGGCGAGGACG
CCCTGGGCTTCTGTGGCCACACGGTCATCCTGACTGCCAACCTGGAGGCCCAGGCCCTGTGGAAGGAGCCGGGCA
GCAATGTCACCATGAGTGTGGATGCTGAGTGTGTGCCCATGGTCAGGGACCTTCTCAGGTACTTCTACTCCCGAA
GGATTGACATCACCCTGTCGTCAGTCAAGTGCTTCCACAAGCTGGCCTCTGCCTATGGGGCCAGGCAGCTGCAGG
GCTACTGCGCAAGCCTCTTTGCCATCCTCCTCCCCCAGGACCCCTCGTTCCAGATGCCCCTGGACCTGTATGCCT
ATGCAGTGGCCACAGGGGACGCCCTGCTGGAGAAGCTCTGCCTACAGTTCCTGGCCTGGAACTTCGAGGCCTTGA
CGCAGGCCGAGGCCTGGCCCAGTGTCCCCACAGACCTGCTCCAACTGCTGCTGCCCAGGAGCGACCTGGCGGTGC
CCAGCGAGCTGGCCCTACTGAAGGCCGTGGACACCTGGAGCTGGGGGGAGCGTGCCTCCCATGAGGAGGTGGAGG
GCTTGGTGGAGAAGATCCGCTTCCCCATGATGCTCCCTGAGGAGCTCTTTGAGCTGCAGTTCAACCTGTCCCTGT
ACTGGAGCCACGAGGCCCTGTTCCAGAAGAAGACTCTGCAGGCCCTGGAATTCCACACTGTGCCCTTCCAGTTGC
TGGCCCGGTACAAAGGCCTGAACCTCACCGAGGATACCTACAAGCCCCGGATTTACACCTCGCCCACCTGGAGTG
CCTTTGTGACAGACAGTTCCTGGAGTGCACGGAAGTCACAACTGGTCTATCAGTCCAGACGGGGGCCTTTGGTCA
AATATTCTTCTGATTACTTCCAAGCCCCCTCTGACTACAGATACTACCCCTACCAGTCCTTCCAGACTCCACAAC
ACCCCAGCTTCCTCTTCCAGGACAAGAGGGTGTCCTGGTCCCTGGTCTACCTCCCCACCATCCAGAGCTGCTGGA
ACTACGGCTTCTCCTGCTCCTCGGACGAGCTCCCTGTCCTGGGCCTCACCAAGTCTGGCGGCTCAGATCGCACCA
TTGCCTACGAAAACAAAGCCCTGATGCTCTGCGAAGGGCTCTTCGTGGCAGACGTCACCGATTTCGAGGGCTGGA
AGGCTGCGATTCCCAGTGCCCTGGACACCAACAGCTCGAAGAGCACCTCCTCCTTCCCCTGCCCGGCAGGGCACT
TCAACGGCTTCCGCACGGTCATCCGCCCCTTCTACCTGACCAACTCCTCAGGTGTGGACTAGACGGCGTGGCCCA
AGGGTGGTGAGAACCGGAGAACCCCAGGACGCCCTCACTGCAGGCTCCCCTCCTCGGCTTCCTTCCTCTCTGCAA
TGACCTTCAACAACCGGCCACCAGATGTCGCCCTACTCACCTGAGCGCTCAGCTTCAAGAAATTACTGGAAGGCT
TCCACTAGGGTCCACCAGGAGTTCTCCCACCACCTCACCAGTTTCCAGGTGGTAAGCACCAGGACGCCCTCGAGG
TTGCTCTGGGATCCCCCCACAGCCCCTGGTCAGTCTGCCCTTGTCACTGGTCTGAGGTCATTAAAATTACATTGA
GGTTCCTA

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FIGURE 4990

MTPPRLFWVWLLVAGTQGVNDGDMRLADGGATNQGRVEIFYRGQWGTVCDNLWDLTDASVVCRALGFENATQALG
RAAFGQGSGPIMLDEVQCTGTEASLADCKSLGWLKSNCRHERDAGVVCTNETRSTHTLDLSRELSEALGQIFDSQ
RGCDLSISVNVQGEDALGFCGHTVILTANLEAQALWKEPGSNVTMSVDAECVPMVRDLLRYFYSRRIDITLSSVK
CFHKLASAYGARQLQGYCASLFAILLPQDPSFQMPLDLYAYAVATGDALLEKLCLQFLAWNFEALTQAEAWPSVP
TDLLQLLLPRSDLAVPSELALLKAVDTWSWGERASHEEVEGLVEKIRFPMMLPEELFELQFNLSLYWSHEALFQK
KTLQALEFHTVPFQLLARYKGLNLTEDTYKPRIYTSPTWSAFVTDSSWSARKSQLVYQSRXGAFGQIFF

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FIGURE 4991

GTGCCTCCCATGAGGAGGTGGAGGGCTTGGTGGAGAAGATCCGCTTCCCCATGATGCTCCCTGAGGAGCTCTTTG
AGCTGCAGTTCAACCTGTCCCTGTACTGGAGCCACGAGGCCCTGTTCCAGAAGAAGACTCTGCAGGCCCTGGAAT
TCCACACTGTGCCCTTCCAGTTGCTGGCCCGGTACAAAGGCCTGAACCTCACCGAGGATACCTACAAGCCACGGA
AGTCACAACTGGTCTATCAGTCCAGACGGGGGGCCTTTGGTCAAATATTCTTCTGATTACTTCCAAGCCCCCTCTG
ACTACAGATACTACCCCTACCAGTCCTTCCAGACTCCACAACACCCCAGCTTCCTCTTCCAGGACAAGAGGGTGT
CCTGGTCCCTGGTCTACCTCCCCACCATCCAGAGCTGCTGGAACTACGGCTTCTCCTGCTCCTCGGACGAGCTCC
CTGTCCTGGGCCTCACCAAGTCTGGCGGCTCAGATCGCACCATTGCCTACGAAAACAAAGCCCTGATGCTCTGCG
AAGGGCTCTTCGTGGCAGACGTCACCGATTTCGAGGGCTGGAAGGCTGCGATTCCCAGTGCCCTGGACACCAACA
GCTCGAAGAGCACCTCCTCCTTCCCCTGCCCGGCAGGGCACTTCAACGGCTTCCGCACGGTCATCCGCCCCTTCT
ACCTGACCAACTCCTCAGGTGTGGACTAGACGGCGTGGCCCAAGGGTGGTGAGAACCGGAGAACCCCAGGACGCC
CTCACTGCAGGCTCCCCTCCTCGGCTTCCTTCCTCTCTGCAATGACCT

FIGURE 4992A

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TGCTCCCTCCAAATCCAAGTCCAGCAGTTCCTCCTCTTCCTCCACGTCATCCTCCTCTTCCTCAGATGAAGAGGA
TGACAGTGACTTAGATGCTAAGAGGGGGTCCCCGGGGCCGCGAGACCCACCCAGTGCCGCAGAAGAAGGCCCAGAT
CCTGGTGGCCAAACCCGAGCTGAAGGATCCCATCCGGAAGAAGCGGGGACGAAAGCCCCTGCCCCCAGAGCAAAA
GGCAACCCGAAGACCCGTGAGCCTGGCCAAGGTGCTGAAGACCGCCCGGAAGGATCTGGGGGCCCCCGGCCAGCAA
GCTGCCCCCTCCACTCAGCGCCCCCGTTGCAGGCCTGGCAGCTCTGAAGGCCCACGCCAAGGAGGCCTGTGGCGG
CCCCAGTGCCATGGCCACCCCAGAGAACCTGGCCAGCCTAATGAAGGGCATGGCCAGTAGCCCCGGCCGGGGTGG
CATCAGCTGGCAGAGCTCCATCGTGCACTACATGAACCGGATGACCCAGAGCCAGGCCCAGGCTGCCAGCAGGTT
GGCGCTGAAGGCCCAGGCCACCAACAAGTGCGGCCTCGGGCTGGACCTGAAGGTGAGGACGCAGAAAGGGGAGCT
GGGAATGAGCCCTCCAGGAAGCAAAATCCCGAAGGCCCCCAGCGGTGGGGCTGTGGAGCAGAAAGTGGGGAACAC
AGGGGGGCCCCCGCACACCCATGGTGCCAGCAGGGTGCCTGCTGGGTGCCCAGGCCCCCAGCCAGCACCCACCCA
GGAGCTGAGCCTCCAGGTCTTGGACTTGCAGAGTGTCAAGAATGGCATGCCCGGGGTGGGTCTCCTTGCCCGCCA
CGCCACCGCCACCAAGGGTGTCCCGGCCACCAACCCAGCCCTGGGAAGGGCACTGGGAGTGGCCTCATTGGGGC
CAGCGGGGCCACCATGCCCACCGACACAAGCAAAAGTGAGAAGCTGGCTTCCAGAGCAGTGGCGCCACCCACCCC
TGCCAGCAAGAGGGACTGTGTCAAGGGCAGTGCTACCCCCAGTGGGCAGGAGAGCCGCACAGCCCCCGGAGAAGC
CCGCAAGGCGGCCACACTGCCAGAGATGAGCGCAGGTGAGGAGAGTAGCAGCTCGGACTCCGACCCCGACTCCGC
CTCCGCCGCCCAGCACTGGACAGAACCCGTCAGTGTCCGTTCAGACCAGCCAGGACTGGAAGCCCACCCGCAGCCT
CATCGAGCACGTATTTGTCACCGACGTCACTGCCAACCTCATCACCGTCACAGTGAAGGAGTCTCCCACCAGCGT
GGGCTTCTTCAACCTGAGGCATTACTGAAGCCCCGGCGCCACCAGCTGCGCGGTCTTACTCCCCTTCCCTGCCTA
TGGTGTCGCTTGGCTAAGTGACTCCCAGCCCAAGCCCCCTCAAGAGTCTGGGTCGGGGGAGGAGGAGTGGGTGGC
CTCCTTGATGGGCAGGCTTGGAAGGGACTTCTCCCGCACCCCACTCTGTCCCAGGACATAGGGCAGGGGGCCTCA
CTGCCTTGTTGGTCTCCACCTTGTTCCTACCTCTGCAGGCCTCTTTGCTCTCCCCTCTTGCCTCAGGAAACCCGG
TGGCACCTGTGGCTCCAGGTGACTGTCTTGAACAGAGCGGGCTTCTTCATGGCTGCGTTGTTGCTGAGTTTGAAC
TGCTCCTCCCTGGCCTGCGTGACTGAATCACAGCTTTGGTCCCTGTCTTGCAGGGGCTGAGGTGTCAGGAGGGGA
CTTCTGGCCCACCTTGCCTTCAGCCCTGGAGTGGGCAGAGAGTATTGTGGGGAGGCATGGCCAGTGGGACTAGTG
TTCCCTCCATCTGGCCACAGCTTTTGGGAGATGGGGTGGGCAGGGGTGGTCCTGGCTGGCATTGCCTGAGCCGGC
AGTGATGAAGTGGGGAGCTTGCCCTTGACAGGTGGGGGCTGGCTGGGGCCTTAATGTGAAAAGACAGTGGCAGGC
AGCTGGAGTAGAGCGAGCCCAGCAGCCCTAAAAGGCTGCCTTCATGGCCATCTAGCCCCAGTTCAGGGCAGCATC
CATAGCCCACAAGCCAGCGTGGGTGGGGCGGGGTGGTCCCACAGCTGGGTTCCACCTGAAGAGCCTCCGTGCCT
CGGAGCAGGAGAGGCAGGCTATGGCTGCCACCCTCCCTCCTGCCTGTGTCCCAGTGAGAACTGACCTGAGTCCCC
TTCCAAACCCAGACCCACCTCCTGCCCCAGGCCCACTGAAGCATGTTCCATTTCTAAAAAGCCCAGAGTTCAGTG
TGTCCCAAGGAAAACCCAAAGTGGAGGTGCTCAGGTCCAGGGGAGTCCAGTGGGCAGGACCCTTGGCAGGCAAGC
CCCTCCCTTCACTCCCAGGACCTACCTTCTGCTAGTAAAGGACTGGCTTCATTCTAATTATGGCCCACAGACTGC
CCCGGAGACCTGGAGGACAGCAGTGCTGGCACTTGGGTGTCCATGGGCCCGTCTGCCGGCTCTGCCTGTGCTGCA
AGTGTTGGCCGTGGGTCCAGCCAACAACTCCCTACGTCCTGTGTGGGGCCCTGCCCAAGTGGATGAGGCATTCCT
TGAGGAGTATCATTTTCCCTGACAATCCCCATCACCTTTAGGGGTTCCCTGCTTGGCTCCTTTCCAGCTGAAAAA
CTAGACCTGTGCCATTGGGGAAGCTGGACAAAGTCTAGGGGGCCCGCCTGGTAGAGGGTCCCGGGAAGCTGGATC
TGTCAGCCTCGGCCCTGAGGCCCCTGTTAACTCAAGACTGTGAGCTGCCTCTAGGTGGTCACGTCTGGGAGCTAG
CTTGTATGGCTTCTGACCAGTATCAGGATTTCTGTTCTGAGAGCAGCGTGGGCAGCAAGGCAGGGCAGCCCAGAG
GTGGCAGCGGCAGGCAATCTGGTCACTAGGTCTTTGTGATGCCAAAAATAAAAGAGGGTGGGGTGGGTGCTTTCT
GTTCCTCTGATTGGATGGAGTCCGCCAGCAGGCATGGGGCTACATTCCAGTGCCTGACTATAGGGAGGCACTCCT
GATTCCATGGAGCAGCCCGGACTTTGAGAATGGGCTCTGGTTTGCGGGGGGCAGGCGTACCAGACTGCAAGACCC
CCCAGTACCTCACCGTGCCAAATAGGAAGAGGTGGCCTTGGTGTAGCCAAATGGATCTTTTTAACAGTGTGCCTT
TGGGGAGGGACCCATGTCCATGGCTTCGTTGAGGGCCATCCATATGCCAGCTGGGGGCCAGCCCACAGTGGCCAT
ATTGGCTGCAGCAGGAATGGTGCCCACCTCGGCGAATTGAAGGGCTAAGAGTCCCAGATAGCTAGGCCAGAGCTG
GAAGCAGACAGTAAGGGGAAGAGCTGCTCCCACAGAAGAGGGAGAGATTCCAGCTCACTGCGCAGCCTGGGAGGA
GGCGTGGATCCTGGCACGCTGAGCCTCAGGCACCAGCCTCCCTGTGCTCGACAGCAAAGTCTTGACTCCTTCCTG
CTGAGCACTGTGCTACCTTCACTGCTCCAAAGCCAGACTAACAGCTCTCCAAGCCCTTGGGGTGACTCGGCTTCC
AGGAGCTGTTGGAGAAATGAGGATGTCTGTCCCTGTCTGCCTGGGCAGGCCAGATTCCTCCCCAGCAGCCGGGTC
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5415/6881
FIGURE 4992B

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TCTCCAGACCCTGATTCGGTGCCTTTCTGTTTACCAGCTACTTCAATCCCAAAGTTTGAATCTGCAGATACCTTA
CTCCCAGCCACTTTGCCTTCTTACTGTGTTGTGTGTTTTTCCTGGTGCTTCAAGAGCGTGTGCAGGGCAAGTGCC
GTCACTGGGAACTGCACCAGATGCTCAGACTTGGTTGTCTTATGTTTACCAATAAATAAAAGTAGACTTTTTCTA
TTTTTATTTGCTGCTATTTGTGTGTGTGTTTGTGTTTGTGTAGCTAGGTATCTGCACTTCTGACGATGCATTGTT
GCTTTTTTCCCGAAGTCCCGCAGGAACTGTGGCAATGGTGTGTGTGTGAAATGGTGTGTTAACCGCGTTTTGTTT
GCTCCTGTATTGAATAGGAAGCAGTGGCCAGTCTGTCTTCCTTAGAGATGTTAGCATATTTTTATATGTATATAT
TTTGTACCAAAAAAGAGTGTTCCTTGTTTTGGTTACACTCGAAATTCTGACCTAGCTGGAGAGGGCTCTGGGCCG
AGAGCTTTCACTAAGGGGAGACTTCAGGGGAGGATCAAGCTTTGAACCAAAGCCAATCACTGGCTTGATTTGTGT
TTTTTAATTAAAAAAAAAATCATTCATGTATGCCACTTCTAA
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5416/6881
FIGURE 4993

MATPENLASLMKGMASSPGRGGISWQSSIVHYMNRMTQSQAQAASRLALKAQATNKCGLGLDLKVRTQKGELGMS
PPGSKIPKAPSGGAVEQKVGNTGGPPHTHGASRVPAGCPGPQPAPTQELSLQVLDLQSVKNGMPGVGLLARHATA
TKGVPATNPAPGKGTGSGLIGASGATMPTDTSKSEKLASRAVAPPTPASKRDCVKGSATPSGQESRTAPGEARKA
ATLPEMSAGEESSSSDSDPDSASPPSTGQNPSVSVQTSQDWKPTRSLIEHVFVTDVTANLITVTVKESPTSVGFF
NLRHY

5417/6881
FIGURE 4994A

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GCGCCTGCGCGGGAGGCCGCGTCACGTGACCCACCGCGGACCCGCCCCGCGACGAGCTCCCGCCGGTCACGTGAC
CCGCCTCTGCGCGCCCCCGGGCACGACCCCGGAGTCTCCGCGGGCGGCCAGGGCGCGCGTGCGCGGAGGTGAGCC
GGGCCGGGGCTGCGGGGCTTCCCTGAGCGCGGGCCGGGTCGGTGGGGCGGTCGGCTGCCCGCGCGGCCTCTCAGT
TGGGAAAGCTGAGGTTGTCGCCGGGGCCGCGGGTGGAGGTCGGGGATGAGGCAGCAGGTAGGACAGTGACCTCGG
TGACGCGAAGGACCCCGGCCACCTCTAGGTTCTCCTCGTCCGCCCGTTGTTCAGCGAGGGAGGCTCTGCGCGTGC
CGCAGCTGACGGGGAAACTGAGGCACGGAGCGGGCCTGTAGGAGCTGTCCAGGCCATCTCCAACCATGGGAGTGA
GGCACCCGCCCTGCTCCCACCGGCTCCTGGCCGTCTGCGCCCTCGTGTCCTTGGCAACCGCTGCACTCCTGGGGC
ACATCCTACTCCATGATTTCCTGCTGGTTCCCCGAGAGCTGAGTGGCTCCTCCCCAGTCCTGGAGGAGACTCACC
CAGCTCACCAGCAGGGAGCCAGCAGACCAGGGCCCCGGGATGCCCAGGCACACCCCGGCCGTCCCAGAGCAGTGC
CCACACAGTGCGACGTCCCCCCCAACAGCCGCTTCGATTGCGCCCCTGACAAGGCCATCACCCAGGAACAGTGCG
AGGCCCGCGGCTGTTGCTACATCCCTGCAAAGCAGGGGCTGCAGGGAGCCCAGATGGGGCAGCCCTGGTGCTTCT
TCCCACCCAGCTACCCCAGCTACAAGCTGGAGAACCTGAGCTCCTCTGAAATGGGCTACACGGCCACCCTGACCC
GTACCACCCCCACCTTCTTCCCCAAGGACATCCTGACCCTGCGGCTGGACGTGATGATGGAGACTGAGAACCGCC
TCCACTTCACGATCAAAGATCCAGCTAACAGGCGCTACGAGGTGCCCTTGGAGACCCCGCATGTCCACAGCCGGG
CACCGTCCCCACTCTACAGCGTGGAGTTCTCCGAGGAGCCCTTCGGGGTGATCGTGCGCCGGCAGCTGGACGGCC
GCGTGCTGCTGAACACGACGGTGGCGCCCCTGTTCTTTGCGGACCAGTTCCTTCAGCTGTCCACCTCGCTGCCCT
CGCAGTATATCACAGGCCTCGCCGAGCACCTCAGTCCCCTGATGCTCAGCACCAGCTGGACCAGGATCACCCTGT
GGAACCGGGACCTTGCGCCCACGCCCGGTGCGAACCTCTACGGGTCTCACCCTTTCTACCTGGCGCTGGAGGACG
GCGGGTCGGCACACGGGGTGTTCCTGCTAAACAGCAATGCCATGGATGTGGTCCTGCAGCCGAGCCCTGCCCTTA
GCTGGAGGTCGACAGGTGGGATCCTGGATGTCTACATCTTCCTGGGCCCAGAGCCCAAGAGCGTGGTGCAGCAGT
ACCTGGACGTTGTGGGATACCCGTTCATGCCGCCATACTGGGGCCTGGGCTTCCACCTGTGCCGCTGGGGCTACT
CCTCCACCGCTATCACCCGCCAGGTGGTGGAGAACATGACCAGGGCCCACTTCCCCCTGGACGTCCAGTGGAACG
ACCTGGACTACATGGACTCCCGGAGGGACTTCACGTTCAACAAGGATGGCTTCCGGGACTTCCCGGCCATGGTGC
AGGAGCTGCACCAGGGCGGCCGGCGCTACATGATGATCGTGGATCCTGCCATCAGCAGCTCGGGCCCTGCCGGGA
GCTACAGGCCCTACGACGAGGGTCTGCGGAGGGGGGTTTTCATCACCAACGAGACCGGCCAGCCGCTGATTGGGA
AGGTATGGCCCGGGTCCACTGCCTTCCCCGACTTCACCAACCCCACAGCCCTGGCCTGGTGGGAGGACATGGTGG
CTGAGTTCCATGACCAGGTGCCCTTCGACGGCATGTGGATTGACATGAACGAGCCTTCCAACTTCATCAGGGGGCT
CTGAGGACGGCTGCCCCAACAATGAGCTGGAGAACCCACCCTACGTGCCTGGGGTGGTTGGGGGGACCCTCCAGG
CGGCCACCATCTGTGCCTCCAGCCACCAGTTTCTCTCCACACACTACAACCTGCACAACCTCTACGGCCTGACCG
AAGCCATCGCCTCCCACAGGGCGCTGGTGAAGGCTCGGGGGACACGCCCATTTGTGATCTCCCGCTCGACCTTTG
CTGGCCACGGCCGATACGCCGGCCACTGGACGGGGGACGTGTGGAGCTCCTGGGAGCAGCTCGCCTCCTCCGTGC
CAGAAATCCTGCAGTTTAACCTGCTGGGGGTGCCTCTGGTCGGGGCCGACGTCTGCGGCTTCCTGGGCAACACCT
CAGAGGAGCTGTGTGTGCGCTGGACCCAGCTGGGGGCCTTCTACCCCTTCATGCGGAACCACAACAGCCTGCTCA
GTCTGCCCCAGGAGCCGTACAGCTTCAGCGAGCCGGCCCAGCAGGCCATGAGGAAGGCCCTCACCCTGCGCTACG
CACTCCTCCCCCACCTCTACACACTGTTCCACCAGGCCCACGTCGCGGGGGAGACCGTGGCCCGGCCCCTCTTCC
TGGAGTTCCCCAAGGACTCTAGCACCTGGACTGTGGACCACCAGCTCCTGTGGGGGGAGGCCCTGCTCATCACCC
CAGTGCTCCAGGCCGGGAAGGCCGAAGTGACTGGCTACTTCCCCTTGGGCACATGGTACGACCTGCAGACGGTGC
CAGTAGAGGCCCTTGGCAGCCTCCCACCCCCACCTGCAGCTCCCCGTGAGCCAGCCATCCACAGCGAGGGGCAGT
GGGTGACGCTGCCGGCCCCCCTGGACACCATCAACGTCCACCTCCGGGCTGGGTACATCATCCCCCTGCAGGGCC
CTGGCCTCACAACCACAGAGTCCCGCCAGCAGCCCATGGCCCTGGCTGTGGCCCTGACCAAGGGTGGGGAGGCCC
GAGGGGAGCTGTTCTGGGACGATGGAGAGAGCCTGGAAGTGCTGGAGCGAGGGGCCTACACACAGGTCATCTTCC
TGGCCAGGAATAACACGATCGTGAATGAGCTGGTACGTGTGACCAGTGAGGGAGCTGGCCTGCAGCTGCAGAAGG
TGACTGTCCTGGGCGTGGCCACGGCGCCCCAGCAGGTCCTCTCCAACGGTGTCCCTGTCTCCAACTTCACCTACA
GCCCCGACACCAAGGTCCTGGACATCTGTGTCTCGCTGTTGATGGGAGAGCAGTTTCTCGTCAGCTGGTGTTAGC
CGGGCGGAGTGTGTTAGTCTCTCCAGAGGGAGGCTGGTTCCCAGGGAAGCAGAGCCTGTGTGCGGGCAGCAGCT
GTGTGCGGGCCTGGGGGTTGCATGTGTCACCTGGAGCTGGGCACTAACCATTCCAAGCCGCCGCATCGCTTGTTT
CCACCTCCTGGGCCGGGGCTCTGGCCCCCAACGTGTCTAGGAGAGCTTTCTCCCTAGATCGCACTGTGGGCCGGG
GCCCTGGAGGGCTGCTCTGTGTTAATAAGATTGTAAGGTTTGCCCTCCTCACCTGTTGCCGGCATGCGGGTAGTA
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FIGURE 4994B

TTAGCCACCCCCCTCCATCTGTTCCCAGCACCGGAGAAGGGGGTGCTCAGGTGGAGGTGTGGGGTATGCACCTGA
GCTCCTGCTTCGCGCCTGCTGCTCTGCCCCAACGCGACCGCTGCCCGGCTGCCCAGAGGGCTGGATGCCTGCCGG
TCCCCGAGCAAGCCTGGGAACTCAGGAAAATTCACAGGACTTGGGAGATTCTAAATCTTAAGTGCAATTATTTTT
AATAAAAGGGGCATTTGGAATC

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FIGURE 4995

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TCGGCAGCGGCACAGCGAGGTCGGCAGCGGCACAGCGAGGTCGGCAGCGGCACAGCGAGGTCGGCAGCGGCACAG
CGAGGTCGGCAGCGGCAGCGAGGTCGGCAGCGGCACAGCGAGGTCGGCAGCGGCAGCGAGGTCGGCAGCGGCGCG
CGCTGTGCTCTTCCGCGGACTCTGAATCATGGCGACCACGGCCACGATGGCGACCTCGGGCTCGGCGCGAAAGCG
GCTGCTCAAAGAGGAAGACATGACTAAAGTGGAATTCGAGACCAGCGAGGAGGTGGATGTGACCCCCACGTTCGA
CACCATGGGCCTGCGGGAGGACCTGCTGCGGGGCATCTACGCTTACGGTTTTGAAAAACCATCAGCAATCCAGCA
ACGAGCAATCAAGCAGATCATCAAAGGGAGAGATGTCATCGCACAGTCTCAGTCCGGCACAGGAAAAACAGCCAC
CTTCAGTATCTCAGTCCTCCAGTGTTTGGATATTCAGGTTCGTGAAACTCAAGCTTTGATCTTGGCTCCCACAAG
AGAGTTGGCTGTGCAGATCCAGAAGGGGCTGCTTGCTCTCGGTGACTACATGAATGTCCAGTGCCATGCCTGCAT
TGGAGGCACCAATGTTGGCGAGGACATCAGGAAGCTGGATTACGGACAGCATGTTGTCGCGGGCACTCCAGGGCG
TGTTTTTGATATGATTCGTCGCAGAAGCCTAAGGACACGTGCTATCAAAATGTTGGTTTTGGATGAAGCTGATGA
AATGTTGAATAAAGGTTTCAAAGAGCAGATTTACGATGTATACAGGTACCTGCCTCCAGCCACACAGGTGGTTCT
CATCAGTGCCACGCTGCCACACGAGATTCTGGAGATGACCAACAAGTTCATGACCGACCCAATCCGCATCTTGGT
GAAACGTGATGAATTGACTCTGGAAGGCATCAAGCAATTTTTCGTGGCAGTGGAGAGGGAAGAGTGGAAATTTGA
CACTCTGTGTGACCTCTACGACACACTGACCATCACTCAGGCGGTCATCTTCTGCAACACCAAAAGAAAGGTGGA
CTGGCTGACGGAGAAAATGAGGGAAGCCAACTTCACTGTATCCTCAATGCATGGAGACATGCCCCAGAAAGAGCG
GGAGTCCATCATGAAGGAGTTCCGGTCGGGCGCCAGCCGAGTGCTTATTTCTACAGATGTCTGGGCCAGGGGGTT
GGATGTCCCTCAGGTGTCCCTCATCATTAACTATGATCTCCCTAATAACAGAGAATTGTACATACACAGAATTGG
GAGATCAGGTCGATACGGCCGGAAGGGTGTGGCCATTAACTTTGTAAAGAATGACGACATCCGCATCCTCAGAGA
TATCGAGCAGTACTATTCCACTCAGATTGATGAGATGCCGATGAACGTTGCTGATCTTATCTGAAGCAGCAGATC
AGTGGGATGAGGGAGACTGTTCACCTGCTGTGTACTCCTGTTTGGAAGTATTTAGATCCAGATTCTACTTAATGG
GGTTTATATGGACTTTCTTCTCATAAATGGCCTGCCGTCTCCCTTCCTTTGAAGAGGATATGGGGATTCTGCTCT
CTTTTCTTATTTACATGTAAATAATACATTGTTCTAAGTCTTTTTCATTAAAAATTTAAAACTTTTCCCAT
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FIGURE 4996A

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GACGGGCTGGGGAGGTGGTGCCAGGCTGGTTGCTAGCTGCCGCCGCTGCTCACCCCGGCCGTCCGGCCGCTTCAT
TGTCACCGGGCCTCGGGGCAGTGTTGGGGGTGGCGGGGCGCCAGGTCGCCGACCCGAGGTTTGGGCGCGACTGGT
TCCGCATCCCCTCCCCGCCGGCCGAATCTGCAGGCCCCGCGCGCCAGGCAGGCTTCGCGGCTGCGCCCCCGGCCC
GCGCAGGACCTGCCTTGTCCACCATGAAAGGCACCCGGGCCATCGGCAGCGTCCCGGAGCGCACGCCAGCAGGTG
TGGACCTGAGTCTGACAGGTCTCCCTCCGCCTGTGTCCCGGCGTCCTGGCAGTGCGCCACCACCAAGCCCATCGT
CCGCTCTGTCTCCGTGGTCACAGGCAGCGAGCAGAAGAGGAAGGTGCTGGAGGCCACAGGGCCTGGGGGCTCCCA
GGCCATCAACAACCTTAGGAGATCCAACAGCACCACGCAGGTCAGCCAGCCTCGGAGCGGCTCCCCCAGGCCAAC
GGAGCCCACAGACTTCCTGATGCTCTTCGAGGGCAGCCCCAGTGGGAAAAGAGGCCTGCCAGCCTGAGCACAGC
CCCCAGCGAGAAGGGAGCCACCTGGAACGTCCTGGATGACCAGCCCCGGGGCTTCACCTTGCCATCCAATGCCCG
GAGTTCCAGTGCCCTTGACTCACCAGCGGGCCCGCGGAGGAAAGAATGCACCGTGGCCCTGGCCCCCAACTTCAC
TGCTAACAACAGGAGCAACAAGGGAGCAGTGGGCAACTGCGTCACCACCATGGTGCACAACCGCTACACCCCCTC
GGAGAGGGCGCCTCCGCTCAAGAGCTCCAACCAGACTGCCCCCTCCCTCAACAACATCATCAAGGCAGCCACCTG
TGAGGGCAGTGAGAGCAGCGGCTTTGGGAAGCTGCCGAAGAATGTCTCCAGTGCCACCCACTCAGCCCGGAACAA
TACTGGGGGCAGCACGGGCTTGCCCAGGCGGAAGGAGGTGACGGAGGAGGAGGCTGAGAGGTTTATCCACCAGGT
GAACCAGGCCACTGTCACCATCCAGCGCTGGTACCGGCACCAGGTGCAGCGGCGCGGAGCAGGAGCTGCCCGCCT
GGAGCACTTGCTTCAGGCCAAGCGGGAGGAGCAGCGGCAGCGGTCAGGCGAGGGGACCCTCTTGGACCTGCACCA
GCAGAAAGAGGCAGCCAGGAGGAAGGCCCGGGAGGAGAAGGCACGCCAAGCCAGGCGAGCAGCCATTCAGGAGCT
GCAACAGAAACGAGCCCTGAGAGCCCAGAAGGCGAGCACTGCCGAGCGTGGGCCACCTGAGAATCCCAGGGAGAC
CAGAGTGCCAGGAATGCGGCAGCCTGCTCAGGAGCTGTCCCCCACACCAGGCGGCACTGCCCACCAGGCCCTCAA
GGCCAACAATACTGGTGGTGGCCTCCCTGCTGCAGGCCCCGGAGACCGCTGCCTGCCCACCTCCGACTCATCCCC
AGAACCACAGCAGCCTCCAGAGGACAGGACGCAGGACGTTCTTGCCCAGGATGCAGCTGGGGACAACCTGGAGAT
GATGGCCCCGAGCAGGGGGAGCGCCAAGTCCAGGGGGCCACTGGAGGAGCTGCTGCACACACTGCAGCTGCTGGA
GAAGGAGCCGGACGTGCTGCCCCGCCCCAGGACCCATCACAGGGGCAGATACGCCTGGGCCAGCGAGGTGACCAC
GGAGGATGACGCCAGCTCTCTGACAGCTGACAACTTGGAGAAATTTGGAAAACTCAGTGCGTTCCCCGAACCTCC
TGAGGATGGGACGCTGCTATCGGAGGCCAAGCTACAAAGCATCATGAGCTTCTTGGACGAGATGGAGAAGTCTGG
GCAGGACCAGCTGGACTCCCAGCAGGAGGGGTGGGTGCCGGAGGCGGGGCCGGGGCCCCTGGAGCTGGGGTCCGA
GGTGAGCACGTCTGTGATGCGGCTGAAGCTGGAGGTGGAGGAGAAGAAGCAGGCCATGCTGCTGCTGCAGAGAGC
GCTGGCGCAGCAGCGAGACCTCACGGCCCGGCGGGTCAAGGAGACAGAGAAGGCGCTGAGCCGGCAGCTGCAGCG
GCAGAGGGAGCACTACGAGGCCACCATCCAGCGGCACTTGGCCTTCATTGACCAGCTGATTGAGGACAAGAAGGT
CCTGAGTGAAAAGTGCGAGGCTGTGGTGGCCGAGCTGAAGCAGGAGGACCAGAGATGCACCGAGCGTGTGGCCCA
GGCACAGGCGCAGCACGAGCTGGAGATTAAAAAAACTCAAAGAATTAATGAGCGCCACCGAGAAAGCCCGCCGGGA
GAAGTGGATCAGTGAGAAAACCAAGAAGATCAAGGAGGTCACTGTCCGAGGTCTGGAGCCCGAGATCCAGAAGCT
GATTGCAAGGCACAAGCAGGAAGTGCGGAGGCTCAAGAGCCTGCACGAGGCGGAGCTGCTGCAGTCGGATGAGCG
GGCCTCGCAGCGCTGCCTGCGCCAGGCCGAGGAGCTGCGGGAGCAGCTGGAGCGGGAGAAGGAGGCGCTGGGCCA
GCAGGAGCGCGAACGTGCTCGGCAGCGGTTCCAGCAGCACCTGGAGCAGGAGCAGTGGGCGCTGCAGCAGCAACG
GCAGCGGCTGTACAGTGAGGTGGCTGAGGAGAGGGAGCGGCTGGGCCAGCAGGCAGCCAGGCAGCGGGCGGAGCT
GGAAGAGCTGAGGCAGCAGCTGGAGGAGAGCAGCTCTGCACTGACCCGAGCCCTGAGGGCTGAGTTTGAGAAGGG
CAGGGAGGAGCAGGAGCGCCGGCACCAGATGGAGCTGAATACCCTGAAGCAGCAGCTGGAGCTGGAGAGGCAGGC
GTGGGAGGCCGGCCGCACCAGGAAGGAGGAGGCGTGGCTGCTGAACCGGGAACAGGAGCTGAGGGAAGAAATCCG
GAAAGGCCGGGACAAGGAGATTGAGCTGGTCATTCACCGGCTGGAGGCCGACATGGCGCTGGCCAAGGAGGAGAG
TGAGAAGGCTGCCGAGAGCCGCATCAAGCGCTTACGGGACAAGTACGAGGCCGAGCTCTCCGAGCTGGAGCAGTC
GGAGCGGAAGCTTCAGGAGCGGTGCTCGGAGCTGAAGGGCCAGCTTGGGGAGGCCGAGGGCGAGAATCTGCGTCT
GCAGGGCCTTGTGCGGCAGAAGGAGCGGGCGCTGGAGGATGCGCAGGCGGTGAACGAGCAGCTTTCTAGCGAGCG
CAGCAACCTGGCCCAGGTGATCCGCCAGGAGTTCGAGGACCGGCTGGCAGCCTCTGAGGAGGAGACGCGGCAGGC
CAAGGCCGAGCTGGCCACGCTGCAGGCCCGCCAGCAGCTGGAGCTGGAGGAGGTGCACCGGAGGGTGAAGACAGC
CCTCGCGAGGAAGGAGGAGGCCGTGAGCAGCCTCCGGACACAACATGAGGCTGCGGTGAAGCGGGCCGACCACCT
GGAGGAGCTGCTGGAGCAGCACAGGAGGCCCACGCCAAGTACCAAGTGACCAGGGATGCCGGGAACACTGTCGAA
GAACGGAAGGCAGAGGACAGAGGCTGGACGTGGGCCCAGAGGCCCACAGGGACGCCCACCTGCCCCCCACAGAGG
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FIGURE 4996B

CTGGTGGTTGAGATGCCCACGGCTAAGCACCTGTGGCTGCATTTTAACAGTAAAGGAGGCCGTTGTTTTC

5422/6881

FIGURE 4997

MKGTRAIGSVPERSPAGVDLSLTGLPPPVSRRPGSAATTKPIVRSVSVVTGSEQKRKVLEATGPGGSQAINNLRR
SNSTTQVSQPRSGSPRPTEPTDFLMLFEGSPSGKKRPASLSTAPSEKGATWNVLDDQPRGFTLPSNARSSSALDS
PAGPRRKECTVALAPNFTANNRSNKGAVGNCVTTMVHNRYTPSERAPPLKSSNQTAPSLNNIIKAATCEGSESSG
FGKLPKNVSSATHSARNNTGGSTGLPRRKEVTEEEAERFIHQVNQATVTIQRWYRHQVQRRGAGAARLEHLLQAK
REEQRQRSGEGTLLDLHQQKEAARRKAREEKARQARRAAIQELQQKRALRAQKASTAERGPPENPRETRVPGMRQ
PAQELSPTPGGTAHQALKANNTGGGLPAAGPGDRCLPTSDSSPEPQQPPEDRTQDVLAQDAAGDNLEMMAPSRGS
AKSRGPLEELLHTLQLLEKEPDVLPRPRTHHRGRYAWASEVTTEDDASSLTADNLEKFGKLSAFPEPPEDGTLLS
EAKLQSIMSFLDEMEKSGQDQLDSQQEGWVPEAGPGPLELGSEVSTSVMRLKLEVEEKKQAMLLLQRALAQQRDL
TARRVKETEKALSRQLQRQREHYEATIQRHLAFIDQLIEDKKVLSEKCEAVVAELKQEDQRCTERVAQAQAQHEL
EIKKLKELMSATEKARREKWISEKTKKIKEVTVRGLEPEIQKLIARHKQEVRRLKSLHEAELLQSDERASQRCLR
QAEELREQLEREKEALGQQERERARQRFQQHLEQEQWALQQQRQRLYSEVAEERERLGQQAARQRAELEELRQQL
EESSSALTRALRAEFEKGREEQERRHQMELNTLKQQLELERQAWEAGRTRKEEAWLLNREQELREEIRKGRDKEI
ELVIHRLEADMALAKEESEKAAESRIKRLRDKYEAELSELEQSERKLQERCSELKGQLGEAEGENLRLQGLVRQK
ERALEDAQAVNEQLSSERSNLAQVIRQEFEDRLAASEEETRQAKAELATLQARQQLELEEVHRRVKTALARKEEA
VSSLRTQHEAAVKRADHLEELLEQHRRPTPSTK

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FIGURE 4998

CAGGTGAGGCGGAACCAACCCTCCTGGCCATGGGAGGGGCCGTGGTGGACGAGGGCCCACAGGCGTCAAGGCCCT
GACGGCGGCTGGGCGTGAGGCGTGCTCTTCGGCTGTTTCGTCATCACTGGCTTCTCCTACGCCTTCCCCAAGGCC
GTCAGTGTCTTCTTCAAGGAGCTCATACAGGAGTTTGGGATCGGCTACAGCGACACAGCCTGGATCTCCTCCATC
CTGCTGGCCATGCTCTACGGGACAGGTCCGCTCTGCAGTGTGTGCGTGAACCGCTTTGGCTGCCGGCCCGTCATG
CTTGTGGGGGGTCTCTTTGCGTCGCTGGGCATGGTGGCTGCGTCCTTTTGCCGGAGCATCATCCAGGTCTACCTC
ACCACTGGGGTCATCACGGGGGTTGGGTTTGGCACTCAACTTCCAGCCCTCGCTCATCATGCTGAACCGCTACTTC
AGCAAGCGGCGCCCCATGGCCAACGGGCTGGCGGCAGCAGGTAGCCCTGTCTTCCTGTGTGCCCTGAGCCCGCTG
GGGCAGCTGCTGCAGGACCGCTACGGCTGGCGGGGCGGCTTCCTCATCCTGGGCGGCCTGCTGCTCAACTGCTGC
GTGTGTGCCGCACTCATGAGGCCCCTGGTGGTCACGGCCCAGCCGGCTCGGGGCAGCCGCGACCCTCCCGGCGCC
TGCTAGACCTGAGCGTCTTCCGGGACCGCGGCTTTGTGCTTTACGCCGTGGCCGCCTCGGTCATGGTGCTGGGGC
TCTTCGTCCCGCCCGTGTTCGTGGTGATGACGCCAAGGACCTGGCGTGCCCGACACCAAGGCGCCTTCCTGCTCA
CCATCCTGGGCTTCATTGACATACTTACGCCCGCGCGGGCTTCGTGCGGGGCTTGGGAAGGTGCGGCCCTATCCG

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FIGURE 4999

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GCGGGCGGCGGCGCTCGGAGTCGCCGGGAGCTGCCAGGCTGCTCCGCGCGCCGCTGCGGGGCCATGATCCGGAAC
GGGCGCGGGGCTGCAGGCGGCGCAGAGCAGCCGGGCCCGGGGGGCAGGCGCGCCGTGAGGGTGTGGTGCGATGGC
TGCTATGACATGGTGCATTACGGCCACTCCAACCAGCTGCGCCAGGCACGGGCCATGGGTGACTACCTCATCGTA
GGCGTGCACACCGATGAGGAGATCGCCAAGCACAAGGGGCCCCCGGTGTTCACTCAGGAGGAGAGATACAAGATG
GTGCAGGCCATCAAATGGGTGGACGAGGTGGTGCCAGCGGCTCCCTACGTCACTACACTAGAGACCCTGGACAAA
TACAACTGTGACTTCTGTGTTCACGGCAATGACATCACCCTGACTGTAGATGGCCGGGACACCTATGAGGAAGTA
AAGCAGGCTGGGAGGTACAGAGAATGCAAGCGCACGCAAGGGGTGTCCACCACAGACCTCGTGGGCCGCATGCTG
CTGGTAACCAAAGCCCATCACAGCAGCCAGGAGATGTCCTCTGAGTACCGGGAGTATGCAGACAGTTTTGGCAAG
TGCCCTGGTGGGCGGAACCCCTGGACCGGGGTATCCCAGTTCCTGCAGACATCTCAGAAGATCATCCAGTTTGCT
TCTGGGAAGGAGCCCCAGCCAGGGGAGACAGTCATCTATGTGGCTGGTGCCTTCGACCTGTTCCACATCGGGCAT
GTGGACTTCCTGGAGAAGGTGCACAGGCTGGCAGAGAGGCCCTACATCATCGCGGGCTTACACTTTGACCAGGAG
GTCAATCACTACAAGGGGAAGAACTACCCCATCATGAATCTGCATGAACGGACTCTGAGCGTGCTGGCCTGCCGG
TACGTGTCAGAAGTGGTGATTGGAGCCCCGTACGCGGTCACAGCAGAGCTCCTAAGTCACTTCAAGGTGGACCTG
GTGTGTCACGGCAAGACAGAAATTATCCCTGACAGGGATGGCTCCGACCCATACCAGGAGCCCAAGAGAAGGGGC
ATCTTCCGTCAGATTGACAGTGGCAGCAACCATCACCAAAGACTCATCGTCAGCGGATTATCACAAACAXXXXXXX
XXXXXGAGGCGCTAAACGAGAAGAAGGAAGCCAAGGAGCTCGCCTTCCTGGAGGTGCCAGGCAGCAGGCGCACAG
CCCTGGGGAGCGCGATGGTACTTCTAACCTGGCAGAGCCCTGCCGGCCCTCCCCCTGCTCTGCTTCTGCGCCTTC
TGCGTTTGGACATAGGACTCTGCAGGGCCGCCCTCTCTAACTGGCCTGGCTCTGGAAGGGCTGGTGAGGACTCTG
CCTCCTTGCCTGCCTACAAGGTGCCTGGTTTGCAGCAGGCTCTCCGCTCTTTCCAGCAAAGCTGCTCAGAGAGGG
TGTCCAGCACAGTGGAGAGGCCGGAAGTGAGACGGGCAGACGGCACCTGCAGCCTGAAACGCACCGCTCCTGCGT
GCGCCCCCACCTGGTCCCCGGATGCCCCCACCACCTGGACAGAGGCCACACTGACTGCCCACCCAGCTGTGGCGG
GAGGTGCAGAGCAGAGGGCTTTAGGGAGCAGTGACTGCGGTCACCCCTTTAGTTCTCTGGGTGTAGACCACACCA
CCTCCCACTGGGCACCCCCCAACACGGTGTCCTGCCACCCAGCGCCTGGCTCCAGGAAAACACGCTTGCCTTCCT
TCCCGGCAGCTTCGCCACTCTCCTTATGGACTCTGTTCTGTTTGTACATGGCTGACGGAAATCTCTTTGGTACAA
CCGAATAAAGCCTGGTGGCAGTGCTGCGCGGGGCTCCCAGCC
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FIGURE 5000

TGACCTGACCTCTCTCCTCTCCCCTCACCCTCCTGCCCCTGGCCACTGCAGGATCAGGAGGGGAGAAGAAGGAGC
CTCTGCTGCCTCCCAGGCTGCTGGGACTGGGCTGGTTTTGTCCTTGAAGTGGTCAGGATACAGGACAAGGGCAGC
CCCACCCCATCCAGCCTGGGCTCCCCGCAGACCCTTGCTGCTCCCGTGGCCTGGACACGCTGGGGAGCTTCTCAC
ACCTACCCCAGGCTGACCCTGAGGTGCTGCTGCTGGGTCTGTCTTGGCTCTGGGGTGTGCTGGGAGGGTCACCAG
GTCCCTTTTCCTTCCTGTGCCCTCTGAAAGCTAAGTGTCTGTGTGGCTGTGGAGCTCGAGGGTCTGTGAATAAAG
GCGGCGGCACTGGG

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FIGURE 5001

CCCCTACACACCGTCCGTTCACCCCCGTCTCTTCCTTCTGCTTTTCGGTTTTTGGAAAGGGATCCATCTCCAGGC
AGCCCACCCTGGTGGGGCTTGTTTCCTGAAACCATGATGTACTTTTTCATACATGAGTCTGTCCAGAGTGCTTGC
TACCGTGTTCGGAGTCTCGCTGCCTCCCTCCCGCGGGAGGTTTCTCCTCTTTTTGAAAATTCCGTCTGTGGGATT
TTTAGACATTTTTCGACATCAGGGGTGTCCCCCATGCCTGGAAGAGGAGCTGGTGGCTGCCAGCCCTGGGGCCCG
GCACAGGCCTGGGCCTTCCCCTTCCCTCAAGCCAGGGCTCCTCCTCCTGTCGTGGGCTCATTGTGACCACTGGCC
TCTCTACAGCACGGCCTGTGGCCTGTTCAAGGCAGAACCACGACCCTTGACTCCCGGGTGGGGAGGTGGCCAAGG
ATGCTGGAGCTGAATCAGACGCTGACAGTTCTTCAGGCATTTCTATTTCACAATCGAATTGAACACATTGGCCAA
ATAAAGTTGAAATTTT

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FIGURE 5002

GGCACGAGGGGGCGGCCGACGACGTTCGTCATTTAGTGCGGGAGGGATCCTGAACCGCGCGGCCGAACCCTCCGG
TGTCCCGACCCAGGCTAAGCTTGAGC**ATG**GCTGAGCAGGAGCCCACAGCCGAGCAGCTGGCCCAGATTGCAGCGG
AGAACGAGGAGGATGAGCACTCGGTCAACTACAAGCCCCCGGCCCAGAAGAGCATCCAGGAGATCCAGGAGCTGG
ACAAGGACGACGAGAGCCTGCGAAAGTACAAGGAGGCCCTGCTGGGCCGCGTGGCCGTTTCCGCAGACCCCAACG
TCCCCAACGTCGTGGTGACTGGCCTGACCCTGGTGTGCAGCTCGGCCCCGGGCCCCCTGGAGCTGGACCTGACGG
GCGACCTGGAGAGCTTCAAGAAGCAGTCGTTTGTGCTGAAGGAGGGTGTGGAGTACCGGATAAAAATCTCTTTCC
GGGTTAACCGAGAGATAGTGTCCGGCATGAAGTACATCCAGCATACGTACAGGAAAGGCGTCAAGATTGACAAGA
CTGACTACATGGTAGGCAGCTATGGGCCCCGGGCCGAGGAGTACGAGTTCCTGACCCCCGTGGAGGAGGCACCCA
AGGGTATGCTGGCCCGGGGCAGCTACAGCATCAAGTCCCGCTTCACAGACGACGACAAGACCGACCACCTGTCCT
GGGAGTGGAATCTCACCATCAAGAAGGACTGGAAGGAC**TGA**GCCCAGCCAGAGGCGGGCAGGGCAGACTGACGGA
CGGACGACGGACAGGCGGATGTGTCCCCCCCAGCCCCTCCCCTCCCCATACCAAAGTGCTGACAGGCCCTCCGTG
CCCCTCCCACCCTGGTCCGCCTCCCTGGCCTGGCTCAACCGAGTGCCTCCGACCCCCCTCCTCAGCCCTCCCCCA
CCCACAGGCCCAGCCTCCTCGGTCTCCTGTCTCGTTGCTGCTTCTGCCTGTGCTGTGGGGGAGAGAGGCCGCAGC
CAGGCCTCTGCTGCCCTTTCTGTGCCCCCCAGGTTCTATCTCCCCGTCACACCCGAGGCCTGGCTTCAGGAGGGA
GCGGAGCAGCCATTCTCCAGGCCCCGTGGTTGCCCCTGGACGTGTGCGTCTGCTGCTCCGGGGTGGAGCTGGGGT
GTGGGATGCACGGCCTCGTGGGGGCCGGGCCGTCCTCCAGCCCCGCTGCTCCCTGGCCAGCCCCCTTGTCGCTGT
CGGTCCCGTCTAACCATGATGCCTTAACATGTGGAGTGTACCGTGGGGCCTCACTAGCCTCTAACTCCCTGTGTC
TGCATGAGCATGTGGCCTCCCCGTCCCTTCCCCGGTGGCGAACCCAGTGACCCAGGGACACGTGGGGTGTGCTGC
TGCTGCTCCCCAGCCCACCAGTGCCTGGCCAGCCTGCCCCCTTCCCTGGACAGGGCTGTGGAGATGGCTCCGGCG
GCTTGGGGAAAGCCAAATTGCCAAAACTCAAGTCACCTCAGTACCATCCAGGAGGCTGGGTATTGTCCTGCCTCT
GCCTTTTCTGTCTCAGCGGGCAGTGCCCAGAGCCCACACCCCCCAAGAGCCCTCGATGGACAGCCTCACCCACC
CCACCTGGGCCCAGCCAGGAGCCCCGCCTGGCCATCAGTATTTATTGCCTCCGTCCGTGCCGTCCCTGGGCCACT
GGCCTGGCGCCTGTTCCCCCAGGCTCTCAGTGCCACCACCCCCGGCAGGCCTTCCCTGACCCAGCCAGGAACAAA
CAAGGGACCAAGTGCACACATTGCTGAGAGCCGTCTCCTGTGCCTCCCCCGCCCCATCCCCGGTCTTCGTGTTGT
GTCTGCCAGGCTCAGGCAGAGGCGCCTGTCCCTGCTTCTTTTCTGACCGGGAAATAAATGCCCCTGAAGGAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5003

MAEQEPTAEQLAQIAAENEEDEHSVNYKPPAQKSIQEIQELDKDDESLRKYKEALLGRVAVSADPNVPNVVVTGL
TLVCSSAPGPLELDLTGDLESFKKQSFVLKEGVEYRIKISFRVNREIVSGMKYIQHTYRKGVKIDKTDYMVGSYG
PRAEEYEFLTPVEEAPKGMLARGSYSIKSRFTDDDKTDHLSWEWNLTIKKDWKD

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FIGURE 5004

CTCCGGACAGCATGAGCGTGGGCTTCATCGGCGCTGGCCAGCTGGCTTTTGCCCTGGCCAAGGCTTTCACAGCAG
CAGGCGTCTTGGCTGCCCACAAGATAATGGCTAGCTCCCCAGACATGGACCTGGCCACAGTTTCTGCTCTCAGGA
AGATGGGGGTGAAGTTGACACCCCACAACAAGGAGACGGTGCAGCACAGTGATGTGCTCTTCCTGGCTGTGAAGC
CACACATCATCCCCTTCATCCTGGATGAAATAGGCGCCGACATTGAGGACAGACACATTGTGGTGTCCTGCGCGG
CCGGCGTCACCATCAGCTCCATTGAGAAGAAGCTGTCAGCGTTTCGGCCAGCCCCCAGGGTCATCCGCTGCATGA
CCAACACTCCAGTCGTGGTGCGGGAGGGGGCCACCGTGTATGCCACAGGACGCACGCCCAGGTGGAGGACGGGAG
GCTC**ATG**GAGCAGCTGCTGAGCAGCGTGGGCTTCTGCACGGAGGTGGAAGAGGACCTGATTGATGCCGTCACGGG
GCTCAGTGGCAGCGGCCCCGCCTACGCATTCACAGCCCTGGATGCCCTGGCTGATGGGGGTGTGAAGATGGGACT
TCCAAGGCGCCTGGCAGTCCGCCTCGGGGCCCAGGCCCTCCTGGGGGCTGCCAAGATGCTGCTGCACTCAGAACA
GCACCCAGGCCAGCTCAAGGACAACGTCAGCTCTCCTGGTGGGGCCACCATCCATGCCTTGCATGTGCTGGAGAG
TGGGGGCTTCCGCTCCCTGCTCATCAACGCTGTGGAGGCCTCCTGCATCCGCACACGGGAGCTGCAGTCCATGGC
TGACCAGGAGCAGGTGTCACCAGCCGCCATCAAGAAGACCATCCTGGACAAGGTGAAGCTGGACTCCCCTGCAGG
GACCGCTCTGTCACCTTCTGGCCACACCAAGCTGCTCCCCCGCAGCCTGGCCCCAGCGGGCAAGGAT**TGA**CACGT
CCTGCCTGACCACCATCCTGCCACCACCTTCTCTTCTCTTGTCACTAGGGGGACTAGGGGGTCCCCAAAGTGGCC
CACTTTCTGTGGCTCTGATCAGCGCAGGGGCCAGCCAGGGACATAGCCAGGGAGGGGCACATCACTTCCCACTG
GAAATCTCTGTGGTCTGCAAGTGCTTCCCAGCCCAGAACAGGGGTGGATTCCCCAACCTCAACCTCCTTTCTTCT
CTGCTCCCAAACCATGTCAGGACCACCTTCCTCTAGAGCTCGGGAGCCCGGAGGGTCTTCACCCACTCCTACTCC
AGTATCAGCTGGCACGGGCTCCTTCCTGAGAGCAAAGGTCAAGGACCCCCTCTGTGAAGGCTCAGCAGAGGTGGG
ATCCCACGCCCCCTCCCGGCCCCTCCCTGCCCTCCATTCAGGGAGAAACCTCTCCTTCCCGTGTGAGAAGGGCCA
GAGGGTCCAGGCATCCCAAGTCCAGCGTGAAGGGCCACAGCCCCTCTTGGCTGCCAAGCACGCAGATCCCATGGA
CATTTGGGGAAAGGGCTCCTTGGGCTGCTGGTGAACTTCTGTGGCCACCACCTCCTGCTCCTGACCTCCCTGGGA
GGGTGCTATCAGTTCTGTCCTGGCCCTTTCAGTTTTATAAGTTGGTTTCCAGCCCCCAGTGTCCTGACTTCTGTC
TGCCACATGAGGAGGGAGGCCCTGCCTGTGTGGGAGGGTGGTTACTGTGGGTGGAATAGTGGAGGCCTTCAACTG
ATTAGACAAGGCCCGCCCACATCTTGGAGGGCATCTGCCTTACTGATTAAAATGTCAATGTAATCT

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FIGURE 5005

MEQLLSSVGFCTEVEEDLIDAVTGLSGSGPAYAFTALDALADGGVKMGLPRRLAVRLGAQALLGAAKMLLHSEQH
PGQLKDNVSSPGGATIHALHVLESGGFRSLLINAVEASCIRTRELQSMADQEQVSPAAIKKTILDKVKLDSPAGT
ALSPSGHTKLLPRSLAPAGKD

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FIGURE 5006

GAC**ATG**GAGCTGTTCCTCGCGGGCCGCCGGGTGCTGGTCACCGGGGCAGGCAAAGGTATAGGGCGCGGCACGGTC
CAGGCGCTGCACGCGACGGGCGCGCGGGTGGTGGCTGTGAGCCGGACTCAGGCGGATCTTGACAGCCTTGTCCGC
GAGTGCCCGGGGATAGAACCCGTGTGCGTGGACCTGGGTGACTGGGAGGCCACCGAGCGGGCGCTGGGCAGCGTG
GGCCCCGTGGACCTGCTGGTGAACAACGCCGCTGTCGCCCTGCTGCAGCCCTTCCTGGAGGTCACCAAGGAGGCC
TTTGACAGATCCTTTGAGGTGAACCTGCGTGCGGTCATCCAGGTGTCGCAGATTGTGGCCAGGGGCTTAATAGCC
CGGGGAGTCCCAGGGGCCATCGTGAATGTCTCCAGCCAGTGCTCCCAGCGGGCAGTAACTAACCATAGCGTCTAC
TGCTCCACCAAGGGTGCCCTGGACATGCTGACCAAGGTGATGGCCCTAGAGCTCGGGCCCCACAAGATCCGAGTG
AATGCAGTAAACCCCACAGTGGTGATGACGTCCATGGGCCAGGCCACCTGGAGTGACCCCCACAAGGCCAAGACT
ATGCTGAACCGAATCCCACTTGGCAAGTTTGCTGAGGTAGAGCACGTGGTGAACGCCATCCTCTTTCTGCTGAGT
GACCGAAGTGGCATGACCACGGGTTCCACTTTGCCGGTGGAAGGGGGCTTCTGGGCCTGC**TGA**GCTCCCTCCACA
CACCTCAAGCCCCATGCCGTGCTCATCCTACCCCCAATCCCTCCAATAAACCTGATTCTGCTGCCCAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5007

MELFLAGRRVLVTGAGKGIGRGTVQALHATGARVVAVSRTQADLDSLVRECPGIEPVCVDLGDWEATERALGSVG
PVDLLVNNAAVALLQPFLEVTKEAFDRSFEVNLRAVIQVSQIVARGLIARGVPGAIVNVSSQCSQRAVTNHSVYC
STKGALDMLTKVMALELGPHKIRVNAVNPTVVMTSMGQATWSDPHKAKTMLNRIPLGKFAEVEHVVNAILFLLSD
RSGMTTGSTLPVEGGFWAC

FIGURE 5008

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TCTCTGAAGTTCCAGAATCGATGGAAGTGGACGGCACGCCGCGGCGGGGTGGGTGCAAGATGCCGCTGCCGGTTC
AGGTGTTTAACTTGCAGGGGGCCGTGGAGCCCATGCAGATCGACGTGGACCCCCAGGAAGACCCGCAGAATGCAC
CTGACGTCAACTACGTGGTGGAGAACCCCAGCCTGGATCTGGAACAGTACGCGGCCAGCTACAGCGGCCTGATGC
GCATCGAACGGCTGCAGTTCATTGCTGATCACTGCCCCACGCTGCGGGTGGAGGCCCTGAAGATGGCCCTCTCCT
TCGTGCAGAGAACCTTTAACGTGGACATGTACGAGGAGATCCACCGCAAGCTCTCAGAGGCCACCAGGGAGCTGC
AGAACGCACCCGACGCCATCCCTGAGAGCGGCGTGGAGCCCCCAGCCCTGGACACGGCCTGGGTGGAGGCCACGC
GGAAGAAGGCGCTGCTGAAGCTGGAGAAGCTGGACACAGACCTGAAGAACTACAAGGGCAACTCCATCAAAGAGA
GCATCCGGCGCGGCCACGACGACCTGGGCGACCACTACCTGGACTGTGGGGACCTCAGCAACGCCCTCAAGTGCT
ATTCCCGGGCCCGGGACTACTGCACCAGCGCCAAACACGTCATCAACATGTGCCTCAATGTCATCAAGGTCAGCG
TCTACTTGCAGAATTGGTCTCATGTGCTCAGCTACGTCAGCAAGGCTGAGTCCACCCCAGAGATTGCCGAGCAGC
GAGGAGAGCGTGACAGCCAGACCCAGGCCATCCTCACCAAGCTCAAGTGTGCCGCAGGCTTGGCAGAGCTGGCCG
CCAGGAAGTACAAGCAGGCTGCCAAGTGCCTCCTGCTGGCTTCCTTTGATCACTGTGACTTCCCTGAGCTGCTGT
CCCCCAGCAACGTGGCCATCTACGGTGGCCTGTGCGCCTTGGCTACCTTTGACCGGCAGGAGCTGCAGCGCAATG
TCATCTCCAGCAGCTCCTTCAAGTTGTTCTTGGAGCTGGAGCCACAGGTCCGAGACATCATCTTCAAATTCTACG
AGTCCAAGTACGCCTCATGTCTCAAGATGCTGGACGAGATGAAGGACAACCTGCTCCTGGACATGTATCTGGCCC
CCCATGTCAGGACCCTGTACACCCAGATTCGCAACCGTGCCCTCATCCAGTATTTCAGCCCCTACGTGTCAGCCG
ACATGCATAGGATGGCGGCAGCCTTCAATACCACGGTGGCCGCCCTGGAGGACGAGCTGACGCAGCTAATCCTGG
AGGGGCTGATCAGTGCCCGTGTGGACTCACACAGCAAGATCCTATACGCCCGGGACGTGGATCAGCGCAGCACCA
CCTTTGAGAAGTCTCTGTTGATGGGCAAGGAGTTCCAGCGCCGCGCCAAGGCCATGATGCTGCGGGCAGCTGTGC
TCCGCAACCAGATCCATGTCAAGTCCCCGCCCAGAGAAGGGAGCCAGGGGGAGCTGACTCCAGCCAACAGCCAGT
CCCGGATGAGCACCAACATGTGAGGGGTGAACCTTGGCCTCCAGGACATCTGCACCCCCTCCCCACCTCCACGGA
CCTCGGACCTCCAGGCGGCTCAGTGCTGCCTGCGGCCCAGCTAAGGGGCCTGGCCACTGGGTGCCACCCAGCCTG
TGTGCCCTCCCTGGGGCTGAGGAGGCAGGCGGCTGCTAGTTGTGGCCCTTCCTGGAAGGAGAGGCCTGCAGGGCT
CGACCCTGTGGGTTTCTGTCCCCAGGGAGCAGACTGTGCGGCACCCAGGCCCAGTGGCACCATTTCCCAGACCCC
TCCTGTTCCCGCCTCAGTCAGGTGCAGACAAGTGGGCGGTGTCCATTAAAGAGCAGACTCAGCGTT
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FIGURE 5009

MEVDGTPRRGGCKMPLPVQVFNLQGAVEPMQIDVDPQEDPQNAPDVNYVVENPSLDLEQYAASYSGLMRIERLQF
IADHCPTLRVEALKMALSFVQRTFNVDMYEEIHRKLSEATRELQNAPDAIPESGVEPPALDTAWVEATRKKALLK
LEKLDTDLKNYKGNSIKESIRRGHDDLGDHYLDCGDLSNALKCYSRARDYCTSAKHVINMCLNVIKVSVYLQNWS
HVLSYVSKAESTPEIAEQRGERDSQTQAILTKLKCAAGLAELAARKYKQAAKCLLLASFDHCDFPELLSPSNVAI
YGGLCALATFDRQELQRNVISSSSFKLFLELEPQVRDIIFKFYESKYASCLKMLDEMKDNLLLDMYLAPHVRTLY
TQIRNRALIQYFSPYVSADMHRMAAAFNTTVAALEDELTQLILEGLISARVDSHSKILYARDVDQRSTTFEKSLL
MGKEFQRRAKAMMLRAAVLRNQIHVKSPPREGSQGELTPANSQSRMSTNM

FIGURE 5010A

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ACGGCAGCGGCCCCGGCCTCCCTCTCCGCCGCGCTTCAGCCTCCCGCTCCGCCGCGCTCCAGCCTCGCTCTCCGC
CGCCCGCACCGCCGCCCGCGCCCTCACCAGAGCAGCCATGGAGGAGGTGGTGATTGCCGGCATGTCCGGGAAGCT
GCCAGAGTCGGAGAACTTGCAGGAGTTCTGGGACAACCTCATCGGCGGTGTGGACATGGTCACGGACGATGACCG
TCGCTGGAAGGCGGCTCTACGGCCTGCCCCGGCGGTCCGGCAAGCTGAAGGACCTGTCTAGGTTTGATGCCTCCT
TCTTCGGAGTCCACCCCAAGCAGGCACACACGATGGACCCTCAGCTGCGGCTGCTGCTGGAAGTCACCTATGAAG
CCATCGTGGACGGAGGCATCAACCCAGATTCACTCCGAGGAACACACACTGGCGTCTGGGTGGGCGTGAGCGGCT
CTGAGACCTCGGAGGCCCTGAGCCGAGACCCCGAGACACTCGTGGGCTACAGCATGGTGGGCTGCCAGCGAGCGA
TGATGGCCAACCGGCTCTCCTTCTTCTTCGACTTCAGAGGGCCCAGCATCGCACTGGACACAGCCTGCTCCTCCA
GCCTGATGGCCCTGCAGAACGCCTACCAGGCCATCCACAGCGGGCAGTGCCCTGCCGCCATCGTGGGGGGCATCA
ATGTCCTGCTGAAGCCCAACACCTCCGTGCAGTTCTTGAGGCTGGGGATGCTCAGCCCCGAGGGCACCTGCAAGG
CCTTCGACACAGCGGGGAATGGGTACTGCCGCTCGGAGGGTGTGGTGGCCGTCCTGCTGACCAAGAAGTCCCTGG
CCCGGCGGGTGTACGCCACCATCCTGAACGCCGGCACCAATACAGATGGCTTCAAGGAGCAAGGCGTGACCTTCC
CCTCAGGGGATATCCAGGAGCAGCTCATCCGCTCGTTGTACCAGTCGGCCGGAGTGGCCCCTGAGTCATTTGAAT
ACATCGAAGCCCACGGCACAGGCACCAAGGTGGGCGACCCCCAGGAGCTGAATGGCATCACCCGAGCCCTGTGCG
CCACCCGCCAGGAGCCGCTGCTCATCGGCTCCACCAAGTCCAACATGGGGCACCCGGAGCCAGCCTCGGGGCTGG
CAGCCCTGGCCAAGGTGCTGCTGTCCCTGGAGCACGGGCTCTGGGCCCCCAACCTGCACTTCCATAGCCCCAACC
CTGAGATCCCAGCGCTGTTGGATGGGCGGCTGCAGGTGGTGGACCAGCCCCTGCCCGTCCGTGGCGGCAACGTGG
GCATCAACTCCTTTGGCTTCGGGGGCTCCAACGTGCACATCATCCTGAGGCCCAACACGCAGCCGCCCCCGCAC
CCGCCCCACATGCCACCCTGCCCCGTCTGCTGCGGGCCAGCGGACGCACCCCTGAGGCCGTGCAGAAGCTGCTGG
AGCAGGGCCTCCGGCACAGCCAGGACCTGGCTTTCCTGAGCATGCTGAACGACATCGCGGCTGTCCCCGCCACCG
CCATGCCCTTCCGTGGCTACGCTGTGCTGGGTGGTGAGCGCGGTGGCCCAGAGGTGCAGCAGGTGCCCGCTGGCG
AGCGCCCGCTCTGGTTCATCTGCTCTGGGATGGGCACACAGTGGCGCGGGATGGGGCTGAGCCTCATGCGCCTGG
ACCGCTTCCGAGATTCCATCCTACGCTCCGATGAGGCTGTGAAGCCATTCGGCCTGAAGGTGTCACAGCTGCTGC
TGAGCACAGACGAGAGCACCTTTGATGACATCGTCCATTCGTTTGTGAGCCTGACTGCCATCCAGATAGGCCTCA
TAGACCTGCTGAGCTGCATGGGGCTGAGGCCAGATGGCATCGTCGGCCACTCCCTGGGGGAGGTGGCCTGTGGCT
ACGCCGACGGCTGCCTGTCCCAGGAGGAGGCCGTCCTCGCTGCCTACTGGAGGGGACAGTGCATCAAAGAAGCCC
ATCTCCCGCCGGGCGCCATGGCAGCCGTGGGCTTGTCCTGGGAGGAGTGTAAACAGCGCTGCCCCCCGGGCGTGG
TGCCCGCCTGCCACAACTCCAAGGACACAGTCACCATCTCGGGACCTCAGGCCCCGGTGTTTGAGTTCGTGGAGC
AGCTGAGGAAGGAGGGTGTGTTTGCCAAGGAGGTGCGGACCGGCGGTATGGCCTTCCACTCCTACTTCATGGAGG
CCATCGCACCCCCACTGCTGCAGGAGCTCAAGAAGGTGATCCGGGAGCCGAAGCCACGTTCAGCCCGCTGGCTCA
GCACCTCTATCCCCGAGGCCCAGTGGCACAGCAGCCTGGCACGCACGTCCTCCGCCGAGTACAATGTCAACAACC
TGGTGAGCCCTGTGCTGTTCCAGGAGGCCCTGTGGCACGTGCCTGAGCACGCGGTGGTGCTGGAGATCGCGCCCC
ACGCCCTGCTGCAGGCTGTCCTGAAGCGTGGCCTGAAGCCGAGCTGCACCATCATCCCCCTGATGAAGAAGGATC
ACAGGGACAACCTGGAGTTCTTCCTGGCCGGCATCGGCAGGCTGCACCTCTCAGGCATCGACGCCAACCCCAATG
CCTTGTTCCCACCTGTGGAGTTCCCAGCTCCCCGAGGAACTCCCCTCATCTCCCCACTCATCAAGTGGGACCACA
GCCTGGCCTGGGACGTGCCGGCCGCCGAGGACTTCCCCAACGGTTCAGGTTCCCCCTCAGCCGCCATCTACAACA
TCGACACCAGCTCCGAGTCTCCTGACCACTACCTGGTGGACCACACCCTCGACGGTCGCGTCCTCTTCCCCGCCA
CTGGCTACCTGAGCATAGTGTGGAAGACGCTGGCCCGCGCCCTGGGCCTGGGCGTCGAGCAGCTGCCTGTGGTGT
TTGAGGATGTGGTGCTGCACCAGGCCACCATCCTGCCCAAGACTGGGACAGTGTCCCTGGAGGTACGGCTCCTGG
AGGCCTCCCGTGCCTTCGAGGTGTCAGAGAACGGCAACCTGGTAGTGAGTGGGAAGGTGTACCAGTGGGATGACC
CTGACCCCAGGCTCTTCGACCACCCGGAAAGCCCCACCCCCAACCCCACGGAGCCCCTCTTCCTGGCCCAGGCTG
AAGTTTACAAGGAGCTGCGTCTGCGTGGCTACGACTACGGCCCTCATTTCCAGGGCATCCTGGAGGCCAGCCTGG
AAGGTGACTCGGGGAGGCTGCTGTGGAAGGATAACTGGGTGAGCTTCATGGACACCATGCTGCAGATGTCCATCC
TGGGCTCGGCCAAGCACGGCCTGTACCTGCCCACCCGTGTCACCGCCATCCACATCGACCCTGCCACCCACAGGC
AGAAGCTGTACACACTGCAGGACAAGGCCCAAGTGGCTGACGTGGTGGTGAGCAGGTGGCTGAGGGTCACAGTGG
CCGGAGGCGTCCACATCTCCGGGCTCCACACTGAGTCGGCCCCGCGGCGGCAGCAGGAGCAGCAGGTGCCCATCC
TGGAGAAGTTTTGCTTCACTCCCCACACGGAGGAGGGGTGCCTGTCTGAGCGCGCTGCCCTGCAGGAGGAGCTGC
AACTGTGCAAGGGGCTGGTGCAGGCACTGCAGACCAAGGTGACCCAGCAGGGGCTGAAGATGGTGGTGCCCGGAC
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FIGURE 5010B

TGGATGGGGGCCCAGATCCCCCGGGACCCCTCACAGCAGGAACTGCCCCGGCTGTTGTCGGCTGCCTGCAGGCTTC
AGCTCAACGGGAACCTGCAGCTGGAGCTGGCGCAGGTGCTGGCCCAGGAGAGGCCCAAGCTGCCAGAGGACCCTC
TGCTCAGCGGCCTCCTGGACTCCCCGGCACTCAAGGCCTGCCTGGACACTGCCGTGGAGAACATGCCCAGCCTGA
AGATGAAGGTGGTGGAGGTGCTGGCTGGCCACGGTCACCTGTATTCCCGCATCCCAGGCCTGCTCAGCCCCCATC
CCCTGCTGCAGCTGAGCTACACGGCCACCGACCGCCACCCCCAGGCCCTGGAGGCTGCCCAGGCCGAGCTGCAGC
AGCACGACGTTGCCCAGGGCCAGTGGGATCCCGCAGACCCTGCCCCCAGCGCCCTGGGCAGCGCCGACCTCCTGG
TGTGCAACTGTGCTGTGGCTGCCCTCGGGGACCCGGCCTCAGCTCTCAGCAACATGGTGGCTGCCCTGAGAGAAG
GGGGCTTTCTGCTCCTGCACACACTGCTCCGGGGGCACCCCCTCGGGGACATCGTGGCCTTCCTCACCTCCACTG
AGCCGCAGTATGGCCAGGGCATCCTGAGCCAGGACGCGTGGGAGAGCCTCTTCTCCAGGGTGTCGCTGCGCCTGG
TGGGCCTGAAGAAGTCCTTCTACGGCTCCACGCTCTTCCTGTGCCGCCGGCCCACCCCGCAGGACAGCCCCATCT
TCCTGCCGGTGGACGATACCAGCTTCCGCTGGGTGGAGTCTCTGAAGGGCATCCTGGCTGACGAAGACTCTTCCC
GGCCTGTGTGGCTGAAGGCCATCAACTGTGCCACCTCGGGCGTGGTGGGCTTGGTGAACTGTCTCCGCCGAGAGC
CCGGCGGGAACCGCCTCCGGTGTGTGCTGCTCTCCAACCTCAGCAGCACCTCCCACGTCCCGGAGGTGGACCCGG
GCTCCGCAGAACTGCAGAAGGTGTTGCAGGGAGACCTGGTGATGAACGTCTACCGCGACGGGGCCTGGGGGGCTT
TCCGCCACTTCCTGCTGGAGGAGGACAAGCCTGAGGAGCCGACGGCACATGCCTTTGTGAGCACCCTCACCCGGG
GGGACCTGTCCTCCATCCGCTGGGTCTGCTCCTCGCTGCGCCATGCCCAGCCCACCTGCCCTGGCGCCCAGCTCT
GCACGGTCTACTACGCCTCCCTCAACTTCCGCGACATCATGCTGGCCACTGGCAAGCTGTCCCCTGATGCCATCC
CAGGGAAGTGGACCTCCCAGGACAGCCTGCTAGGTATGGAGTTCTCGGGCCGAGACGCCAGCGGCAAGCGTGTGA
TGGGACTGGTGCCTGCCAAGGGCCTGGCCACCTCTGTCCTGCTGTCACCGGACTTCCTCTGGGATGTGCCTTCCA
ACTGGACGCTGGAGGAGGCGGCCTCGGTGCCTGTCGTCTACAGCACGGCCTACTACGCGCTGGTGGTGCGTGGGC
GGGTGCGCCCCGGGGAGACGCTGCTCATCCACTCGGGCTCGGGCGGCGTGGGCCAGGCCGCCATCGCCATCGCCC
TCAGTCTGGGCTGCCGCGTCTTCACCACCGTGGGGTCGGCTGAGAAGCGGGCGTACCTCCAGGCCAGGTTCCCCC
AGCTCGACAGCACCAGCTTCGCCAACTCCCGGGACACATCCTTCGAGCAGCATGTGCTGTGGCACACGGGCGGGA
AGGGCGTTGACCTGGTCTTGAACTCCTTGGCGGAAGAGAAGCTGCAGGCCAGCGTGAGGTGCTTGGCTACGCACG
GTCGCTTCCTGGAAATTGGCAAATTCGACCTTTCTCAGAACCACCCGCTCGGCATGGCTATCTTCCTGAAGAACG
TGACATTCCACGGGGTCCTACTGGATGCGTTCTTCAACGAGAGCAGTGCTGACTGGCGGGAGGTGTGGGCGCTTG
TGCAGGCCGGCATCCGGGATGGGGTGGTACGGCCCCTCAAGTGCACGGTGTTCCATGGGGCCCAGGTGGAGGACG
CCTTCCGCTACATGGCCCAAGGGAAGCACATTGGCAAAGTCGTCGTGCAGGTGCTTGCGGAGGAGCCGGAGGCAG
TGCTGAAGGGGGCCAAACCCAAGCTGATGTCGGCCATCTCCAAGACCTTCTGCCCGGCCCACAAGAGCTACATCA
TCGCTGGTGGTCTGGGTGGCTTCGGCCTGGAGTTGGCGCAGTGGCTGATACAGCGTGGGGTGCAGAAGCTCGTGT
TGACTTCTCGCTCCGGGATCCGGACAGGCTACCAGGCCAAGCAGGTCCGCCGGTGGAGGCGCCAGGGCGTACAGG
TGCAGGTGTCCACCAGCAACATCAGCTCACTGGAGGGGGCCCGGGGCCTCATTGCCGAGGCGGCGCAGCTTGGGC
CCGTGGGCGGCGTCTTCAACCTGGCCGTGGTCTTGAGAGATGGCTTGCTGGAGAACCAGACCCCAGAGTTCTTCC
AGGACGTCTGCAAGCCCAAGTACAGCGGCACCCTGAACCTGGACAGGGTGACCCGAGAGGCGTGCCCTGAGCTGG
ACTACTTTGTGGTCTTCTCCTCTGTGAGCTGCGGGCGTGGCAATGCGGGACAGAGCAACTACGGCTTTGCCAATT
CCGCCATGGAGCGTATCTGTGAGAAACGCCGGCACGAAGGCCTCCCAGGCCTGGCCGTGCAGTGGGGCGCCATCG
GCGACGTGGGCATTTTGGTGGAGACGATGAGCACCAACGACACGATCGTCAGTGGCACGCTGCCCCAGCGCATGG
CGTCCTGCCTGGAGGTGCTGGACCTCTTCCTGAACCAGCCCCACATGGTCCTGAGCAGCTTTGTGCTGGCTGAGA
AGGCTGCGGCCTATAGGGACAGGGACAGCCAGCGGGACCTGGTGGAGGCCGTGGCACACATCCTGGGCATCCGCG
ACTTGGCTGCTGTCAACCTGGACAGCTCACTGGCGGACCTGGGCCTGGACTCGCTCATGAGCGTGGAGGTGCGCC
AGACGCTGGAGCGTGAGCTCAACCTGGTGCTGTCCGTGCGCGAGGTGCGGCAACTCACGCTCCGGAAACTGCAGG
AGCTGTCCTCAAAGGCGGATGAGGCCAGCGAGCTGGCATGCCCCACGCCCAAGGAGGATGGTCTGGCCCAGCAGC
AGACTCAGCTGAACCTGCGCTCCCTGCTGGTGAACCCGGAGGGCCCCACCCTGATGCGGCTCAACTCCGTGCAGA
GCTCGGAGCGGCCCCTGTTCCTGGTGCACCCAATCGAGGGCTCCACCACCGTGTTCCACAGCCTGGCCTCCCGGC
TCAGCATCCCCACCTATGGCCTGCAGTGCACCCGAGCTGCGCCCCTTGACAGCATCCACAGCCTGGCTGCCTACT
ACATCGACTGCATCAGGCAGGTGCAGCCCGAGGGCCCCTACCGCGTGGCCGGCTACTCCTACGGGGCCTGCGTGG
CCTTTGAAATGTGCTCCCAGCTGCAGGCCCAGCAGAGCCCAGCCCCCACCCACAACAGCCTCTTCCTGTTCGACG
GCTCGCCCACCTACGTACTGGCCTACACCCAGAGCTACCGGGCAAAGCTGACCCCAGGCTGTGAGGCTGAGGCTG

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FIGURE 5010C

AGACGGAGGCCATATGCTTCTTCGTGCAGCAGTTCACGGACATGGAGCACAACAGGGTGCTGGAGGCGCTGCTGC
CGCTGAAGGGCCTAGAGGAGCGTGTGGCAGCCGCCGTGGACCTGATCATCAAGAGCCACCAGGGCCTGGACCGCC
AGGAGCTGAGCTTTGCGGCCCGGTCCTTCTACTACAAGCTGCGTGCCGCTGAGCAGTACACACCCAAGGCCAAGT
ACCATGGCAACGTGATGCTACTGCGCGCCAAGACGGGTGGCGCCTACGGCGAGGACCTGGGCGCGGACTACAACC
TCTCCCAGGTATGCGACGGGAAAGTATCCGTCCACGTCATCGAGGGTGACCACCGCACGCTGCTGGAGGGCAGCG
GCCTGGAGTCCATCATCAGCATCATCCACAGCTCCCTGGCTGAGCCACGCGTGAGCGTGCGGGAGGGCTAGGCCC
GTGCCCCCGCCTGCCACCGGAGGTCACTCCACCATCCCCACCCCACCCCACCCCACCCCCGCCATGCAACGGGAT
TGAAGGGTCCTGCCGGTGGGACCCTGTCCGGCCCAGTGCCACTGCCCCCCGAGGCTGCTAGATGTAGGTGTTAGG
CATGTCCCACCCACCCGCCGCCTCCCACGGCACCTCGGGGACACCAGAGCTGCCGACTTGGAGACTCCTGGTCTG
TGAAGAGCCGGTGGTGCCCGTGCCCGCAGGAACTGGGCTGGGCCTCGTGCGCCCGTGGGGTCTGCGCTTGGTCTT
TCTGTGCTTGGATTTGCATATTTATTGCATTGCTGGTAGAGACCCCCAGGCCTGTCCACCCTGCCAAGACTCCTC
AGGCAGCGTGTGGGTCCCGCACTCTGCCCCCATTTCCCCGATGTCCCCTGCGGGCGCGGGCAGCCACCCAAGCCT
GCTGGCTGCGGCCCCCTCTCGGCCAGGCATTGGCTCAGCCCGCTGAGTGGGGGGTCGTGGGCCAGTCCCCGAGGA
GCTGGGCCCCTGCACAGGCACACAGGGCCCGGCCACACCCAGCGGCCCCCCGCACAGCCACCCGTGGGGTGCTGC
CCTTATGCCCGGCGCCGGGCACCAACTCCATGTTTGGTGTTTGTCTGTGTTTGTTTTTCAAGAAATGATTCAAAT
TGCTGCTTGGATTTTGAAATTTACTGTAACTGTCAGTGTACACGTCTGGACCCCGTTTCATTTTTACACCAATTT
GGTAAAAATGCTGCTCTCAGCCTCCCACAATTAAACCGCATGTGATCTCC

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FIGURE 5011

CAGGGAGTGCCTGCAGCACCCCGGCGGGGCCACCCCAGTCTGCGTGTACACGAGGGATGAGGTGACGGGTGAAGC
TGCCCTGCGGGGCACGACGCTGCAGTCGCTGGGCCTGACCGGGGGCAGCGCCACCATCAGGTTTGTC**ATG**AAGTG
CTACGACCCCGTGGGCAAGACCCCAGGAAGCCTGGGCTCGTCAGCGTCGGCTGGCCAGGCAGCCGCCAGCGCTCC
ACTTCCCTTGGAATCTGGGGAGCTCAGCCGCGGCGACTTGAGCCGTCCGGAGGACGCGGACACCTCAGGGCCCTG
CTGCGAGCACACTCAGGAGAAGCAGAGCACAAGGGCACCCGCAGCTGCCCCCTTTGTTCCTTTCTCGGGTGGGGG
ACAGAGACTGGGGGGCCCTCCTGGGCCCACGAGGCCTCTGACATCATCTTCAGCTAAGTTGCCGAAGTCCCTCTC
CAGCCCTGGAGGCCCCTCCAAGCCAAAGAAGTCCAAGTCGGGCCAGGATCCCCAGCAGGAGCAGGAGCAGGAGCG
GGAGCGGGATCCCCAGCAGGAGCAGGAGCGGGAGCGGCCCGTGGACCGGGAGCCCGTGGACCGGGAGCCGGTGGT
GTGCCACCCCGACCTGGAGGAGCGGCTGCAGGCCTGGCCAGCGGAGCTGCCTGATGAGTTCTTTGAGCTGACGGT
GGACGACGTGAGAAGACGCTTGGCCCAGCTCAAGAGTGAGCGGAAGCGCCTGGAAGAAGCCCCCTTGGTGACCAA
GGCCTTCAGGGAGGCGCAGATAAAGGAGAAGCTGGAGCGCTACCCAAAGGTGGCTCTGAGGGTCCTGTTCCCCGA
CCGCTACGTCCTACAGGGCTTCTTCCGCCCCAGCGAGACAGGTGGGGGACTTGCGAGACTTCGTGAGGAGCCACC
TGGGGAACCCCGAGCTGTCATTTTACCTGTTCATCACCCCTCCAAAAACAGTCCTGGACGACCACACGCAGACCC
TCTTTCAGGCGAACCTCTTCCCGGCCGCTCTGGTGCACTTGGGAGCCGAAGAGCCGGCAGGTGTCTACCTGGAGC
CTGGCCTGCTGGAGCATGCCATCTCCCCATCTGCGGCCGATGTGCTGGTGGCCAGGTACATGTCCAGGGCCGCCG
GGTCCCCTTCCCCATTGCCAGCCCC**TGA**CCCTGCACCTAAGTCTGAGCCAGCTGCTGAGGAGGGGGCGCTGGTCC
CCCCTGAGCCCATCCCAGGGACGGCCCAGCCCGTGAAGAGGAGCCTGGGCAAGGTGCCCAAGTGGCTGAAGCTGC
CGGCCAGCAAGAGGTGAGAGCTGCCAGCCTGAGGTGCCCACTCCGCCAGCCACAGGACCACCTCCTCTGCCAGCA
GGAATAAAGACTTGTGCATCCCTC

5439/6881
FIGURE 5012

MKCYDPVGKTPGSLGSSASAGQAAASAPLPLESGELSRGDLSRPEDADTSGPCCEHTQEKQSTRAPAAAPFVPFS
GGGQRLGGPPGPTRPLTSSSAKLPKSLSSPGGPSKPKKSKSGQDPQQEQEQERERDPQQEQERERPVDREPVDRE
PVVCHPDLEERLQAWPAELPDEFFELTVDDVRRRLAQLKSERKRLEEAPLVTKAFREAQIKEKLERYPKVALRVL
FPDRYVLQGFFRPSETGGGLARLREEPPGEPRAVILPVHHPSKNSPGRPHADPLSGEPLPGRSGALGSRRAGRCL
PGAWPAGACHLPICGRCAGGQVHVQGRRVPFPIASP

5440/6881
FIGURE 5013

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GACCCCTCCTCCTGTAGAGAGTGGTGCTGCCCTCTCGGGATGTACCTGCAGGTGGAGACCCGCACCAGCTCCCGC
CTCCATCTGAAGAGGGCTCCAGGCATCCGGTCCTGGTCCCTGCTGGTTGGAATCTTGTCGATTGGCCTGGCTGCT
GCCTACTACAGCGGAGATAGCCTGGGCTGGAAGCTCTTCTACGTCACAGGCTGCCTGTTTGTGGCTGTGCAGAAC
TTGGAGGACTGGGAGGAAGCCATCTTCGACAAGAGCACAGGGAAGGTTGTTTTGAAGACGTTCAGCCTCTACAAG
AAGCTGCTGACTCTTTTCAGAGCTGGCCACGACCAGGTGGTGGTCCTGCTCCATGATGTCCGTGATGTGAGCGTG
GAGGAGGAGAAGGTCCGGTACTTCGGGAAAGGCTACATGGTGGTGCTCCGGCTTGCGACGGGCTTCTCCCACCCC
CTCACGCAGAGTGCAGTCATGGGCCACCGCAGTGATGTGGAAGCATCGCCAAGCTCATCACCAGCTTCCTGGAGC
TGCACTGCCTTGAGAGCCCCACAGAGCTGTCTCAGAGCAGCGACAGTGAGGCCGGTGACCCTGCAAGCCAGAGCT
GACAGCCCCACTGTGCCTGAGCCCGTGCACCGCCCACAGGACCCATGGCACATTCCCGGTGTGCCTGAGCCCGTG
CACCGCCCACAGGACCCGTGGCACATTCCCGGTGTGCCTGAGCCCGTGCACCGCCCACAGGACCCGTGGCACATT
CCCGGTGTGCCTGAGCCCGTGCACCGCCCACAGGACCCGTGGCACATTCCCGGTGTGCCTGAGCCCGTGCACCGC
CCACAGGACCCGTGGCCTTGGCTTCAGTTGGTGCCTCCAGCCGAGTTGGCCTATTGCCTGCTCATGCTGCTGCTT
GCACACTGCATGAAACAGCAGGCCAGACCAGGACATCCAGACTTTCTCCATCGTGAGGCCTGGGCCTGCCTTTCT
GCAGCCGGAGGTCTCGCCAGCCCTGGACTCCTGCTTTGGGCCACAGCAAGACCTCGGGCGAGTGGAGAGGCGGGG
CCAGGCCGGGCCCTTGTGGGTGCTGATGCTGCATGTTGTCCCCGACACAGCGTCCTCTCCCTGGTGGACATCCCC
AGCGGTCAGGTGCTTCCCCAAGGGCAGTGAGGGGTGAACATCCAGGGCCTACCTGGCTGTGCACGCTGCAGCCAC
ACTGTGGAAGCTGCCCCTCCCCGAGGACCCGCCTCCCTTGCTGATGCCAGGATCTCAGCGCATAGACCACTCTGC
CCCAGCGGTCGTCACAGAAAGGTCTCTCTGTTCCTCACACTCAGCTTCAGCATAAGCTGTGAGGCCAGAAAAAAG
GTCAGCTCTTCTAGTATCGTGCAGTGCTTAAAAACCGGGAGCTCCAGCCGGGCGCAGTGGTTCATGCCAGTAATC
CCAGCACTTTCGGAGGCCGAGGTGGGAGGATTGCTTGAGGCCAGGAGTTCAAGACCAGCCTGGGCAACACAGCAA
GATCCTGTCTTTGTAAAAAAACTAACCAAACAGGAAAAACTGGGAGATTTTCTGCAGAAATTGAGTTCCAGCCTC
TCTCGAACCTGGGAAGACCTGGCAGGAGGGGGCTGGGCTCTCGGCTACAGACTTCTCCCCACCCCGTAGGAGCTG
AACGCCAACCATCCTGACCCGCCAGTGCTCTTGGTCTCCTGAGTGTACCCAGGTCCTCCCAGGTGCGGTGTGCAC
CGAGCGCGCCTGGCCTGATGCCCTGGCCTGTGAGCTGGGGACTCCTGGGCCCTGTGAGCCCCTAGGCGCAGGCCC
AGGAATGGCTGGGTAGGACAGGGAACACCTTTGCCCCACGTCTGGCTGTGACCTCGGTGAAAGCCGACAGGAGAG
AGATGGACCCTCCTCCTCAGTAGTGGCTGCCAGTCCCTCGTTGCAGGACAGGGTCATCATAACCATAAATAACCC
TTCACGTGTC
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5441/6881
FIGURE 5014

GCGTCGGGGGAGGACAACAAAGGGCCGCGGGCGGCGGGCAGTGGTGTCCCAGTCTCCCGGTGCTTCCCTGAGGCT
GAGGCGCCCGGCCTCCCGCCCGCCGCGCTCCAG**ATG**AAGTGTGAGCACTGCACGCGCÀAGGAATGTAGTAAGAAA
ACAAAAACTGATGACCAAGAGAATGTGTCAGCCGATGCACCGAGTCCAGCCCAGGAAAATGGAGAGAAGGGAGAA
TTCCACAAGTTGGCTGATGCCAAGATATTTTTGAGCGACTGCCTGGCATGTGACAGCTGTATGACTGCAGAGGAA
GGAGTCCAACTTTCCCAGCAAAATGCCAAGGACTTCTTCCGCGTTCTGAACCTTAACAAGAAATGTGATACCTCA
AAGCACAAAGTGCTGGTAGTGTCTGTGTGTCCTCAATCTTTGCCTTATTTTGCTGCTAAATTCAACCTCAGTGTA
ACTGATGCATCCAGAAGACTCTGTGGTTTCCTCAAAAGTCTTGGGGTGCACTATGTATTTGATACGACGATAGCT
GCGGATTTTAGTATCCTGGAGAGTCAAAAAGAATTCGTGCGTCGCTATCGCCAGCACAGTGAGGAGGAACGCACC
CTGCCCATGCTGACCTCTGCCTGTCCTGGCTGGGTCCGATACGCCGAGCGGGTGCTGGGTCGCCCCATCACTGCC
CACCTCTGCACCGCCAAGTCCCCCCAGCAGGTCATGGGCTCTTTGGTGAAGGATTATTTCGCCAGACAGCAGAAC
CTGTCTCCAGAGAAGATTTTCCACGTCATTGTGGCCCCTTGTTATGACAAGAAGCTGGAGGCTCTTCAGGAAAGC
CTTCCCCCTGCTTTGCATGGCTCCCGGGGCGCTGACTGCGTGTTAACATCAGAAATTAGCCAGGCGTGGTGGTGC
ACACCTGTGATCACAGCTACTCGGGAGGCTGCGGCAAGAGAATCACTTGAACCCGGGAGGCAGAGGTTACAGCGA
GACAAGATTGCACCACTGGACTCCAGCCTGGGCGGCGGAGGTGAAATTGCTCAAATAATGGAGCAAGGTGACCTC
TCAGTGAGAGATGCTGCCGTCGACACTCTGTTTGGAGACTTGAAGGAGGACAAAGTGACGCGTCATGATGGAGCC
AGCTCAGACGGGCÀCCTGGCACACATCTTCAGACATGCGGCCAAGGAGCTGTTCAACGAGGATGTGGAGGAGGTC
ACTTACCGAGCCCTGAGAAACAAAGACTTCCAAGAGGTCACCCTTGAGAAGAACGGAGAGGTGGTGTTACGCTTT
GCTGCAGCCTATGGCTTTCGAAACATCCAGAACATGATCCTGAAGCTTAAGAAGGGCAAGTTCCCATTCCACTTT
GTGGAGGTCCTCGCCTGTGCTGGAGGATGCTTAAATGGCAGAGGCCAAGCCCAGACTCCAGACGGACATGCGGAT
AAGGCCCTGCTGCGGCAGATGGAAGGCATTTACGCTGACATCCCTGTGCGGCGTCCGGAGTCCAGTGCACACGTG
CAGGAGCTGTACCAGGAGTGGCTGGAGGGGATCAACTCCCCCAAGGCCCGAGAGGTGCTGCATACCACGTACCAG
AGCCAGGAGCGTGGCACACACAGCCTGGACATCAAGTGG**TGA**AGTCAGGCCAGGGCCTTCCAGCTGCTCTTGGGG
CCAGAGCCAAGAGCCTCTCAGTAGAGGGAGGGGCTGCCCTGAGTGGAGTATTAAAGACACTTAAGAAAACCGCTC
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5442/6881
FIGURE 5015

MKCEHCTRKECSKKTKTDDQENVSADAPSPAQENGEKGEFHKLADAKIFLSDCLACDSCMTAEEGVQLSQQNAKD
FFRVLNLNKKCDTSKHKVLVVSVCPQSLPYFAAKFNLSVTDASRRLCGFLKSLGVHYVFDTTIAADFSILESQKE
FVRRYRQHSEEERTLPMLTSACPGWVRYAERVLGRPITAHLCTAKSPQQVMGSLVKDYFARQQNLSPEKIFHVIV
APCYDKKLEALQESLPPALHGSRGADCVLTSEISQAWWCTPVITATREAAARESLEPGRQRLQRDKIAPLDSSLG
GGGEIAQIMEQGDLSVRDAAVDTLFGDLKEDKVTRHDGASSDGHLAHIFRHAAKELFNEDVEEVTYRALRNKDFQ
EVTLEKNGEVVLRFAAAYGFRNIQNMILKLKKGKFPFHFVEVLACAGGCLNGRGQAQTPDGHADKALLRQMEGIY
ADIPVRRPESSAHVQELYQEWLEGINSPKAREVLHTTYQSQERGTHSLDIKW

5443/6881
FIGURE 5016

CGTCAAGCTTGGCACGAGGCC**ATG**GAGCAGCTGCTGCGCGCCGAGCTGCGCACCGCGACCCTGCGGGCCTTCGGC
GGCCCCGGCGCCGGCTGCATCAGCGAGGGCCGAGCCTACGACACGGACGCAGGCCCAGTGTTCGTCAAAGTCAAC
CGCAGGACGCAGGCCCGGCAGATGTTTGAGGGGGAGGTGGCCAGCCTGGAGGCCCTCCGGAGCACGGGCCTGGTG
CGGGTGCCGAGGCCCATGAAGGTCATCGACCTGCCGGGAGGTGGGGCCGCCTTTGTGATGGAGCATTTGAAGATG
AAGAGCTTGAGCAGTCAAGCATCAAAACTTGGAGAGCAGATGGCAGATTTGCATCTTTACAACCAGAAGCTCAGG
GAGAAGTTGAAGGAGGAGGAGAACACAGTGGGCCGAAGAGGTGAGGGTGCTGAGCCTCAGTATGTGGACAAGTTC
GGCTTCCACACGGTGACGTGCTGCGGCTTCATCCCGCAGGTGAATGAGTGGCAGGATGACTGGCCGACCTTTTTC
GCCCGGCACCGGCTCCAGGCGCAGCTGGACCTCATTGAGAAGGACTATGCTGACCGAGAGGCACGAGAACTCTGG
TCCCGGCTACAGGTGAAGATCCCGGATCTGTTTTGTGGCCTAGAGATTGTCCCCGCGTTGCTCCACGGGGATCTC
TGGTCGGGAAACGTGGCTGAGGACGACGTGGGGCCCATTATTTACGACCCGGCTTCCTTCTATGGCCATTCCGAG
TTTGAACTGGCAATCGCCTTGATGTTTGGGGGGGTTCCCCAGATCCTTCTTCACCGCCTACCACCGGAAGATCCCC
AAGGCTCCGGGCTTCGACCAGCGGCTGCTGCTCTACCAGCTGTTTAACTACCTGAACCACTGGAACCACTTCGGG
CGGGAGTACAGGAGCCCTTCCTTGGGCACCATGCGAAGGCTGCTCAAG**TAG**CGGCCCCTGCCCTCCCTTCCCCTG
TCCCCGTCCCCGT

FIGURE 5017

MEQLLRAELRTATLRAFGGPGAGCISEGRAYDTDAGPVFVKVNRRTQARQMFEGEVASLEALRSTGLVRVPRPMK
VIDLPGGGAAFVMEHLKMKSLSSQASKLGEQMADLHLYNQKLREKLKEEENTVGRRGEGAEPQYVDKFGFHTVTC
CGFIPQVNEWQDDWPTFFARHRLQAQLDLIEKDYADREARELWSRLQVKIPDLFCGLEIVPALLHGDLWSGNVAE
DDVGPIIYDPASFYGHSEFELAIALMFGGFPRSFFTAYHRKIPKAPGFDQRLLLYQLFNYLNHWNHFGREYRSPS
LGTMRRLLK

5445/6881
FIGURE 5018

GACACTATCCGTGCGGCCAGGCGGAGACCCGGAGGACCGAAGCTTCCGGACGACGAGGAACCGCCCAACATGGCC
TCGGAGAGTGGGAAGCTTTGGGGTGGCCGGTTTGTGGGTGCAGTGGACCCCATCATGGAGAAGTTCAACGCGTCC
ATTGCCTACGACCGGCACCTTTGGGAGGTGGATGTTCAAGGCAGCAAAGCCTACAGCAGGGGCCTGGAGAAGGCA
GGGCTCCTCACCAAGGCCGAGATGGACCAGATACTCCATGGCCTAGACAAGGTGGCTGAGGAGTGGGCCCAGGGC
ACCTTCAAACTGAACTCCAATGATGAGGACATCCACACAGCCAATGAGCGCCGCCTGAAGGAGCTCATTGGTGCA
ACGGCAGGGAAGCTGCACACGGGACGGAGCCGGAATGACCAGGTGGTCACAGACCTCAGGCTGTGGATGCGGCAG
ACCTGCTCCACGCTCTCGGGCCTCCTCTGGGAGCTCATTAGGACCATGGTGGATCGGGCAGAGGCGAACGTGATG
TTCTCTTCCCGGGGTACACCCATTTGCAGAGGGCCCAGCCCATCCGCTGGAGCCACTGGATTCTGAGCCACGCCG
TGGCACTGACCCGAGACTCTGAGCGGCTGCTGGAGGTGCGGAAGCGGATCAATGTCCTGCCCCTGGGGAGGTGGG
GCCATTGCAGGCAATCCCCTGGGTGTGGACCGAGAGCTGCTCCGAGCAGAACTCAACTTTGGGGCCATCACTCTC
AACAGCATGGATGCCACTAGTGAGCGGGACTTTGTGGCCGAGTTCCTGTTCTGGGCTTCGCTGTGCATGACCCAT
CTCAGCAGGATGGCCGAGGACCTCATCCTCTACTGCACCAAGGAATTCAGCTTCGTGCAGCTCTCAGATGCCTAC
AGCACGGGAAGCAGCCTGATGCCCCAGAAGAAAAACCCCGACAGTTTGGAGCTGATCCGGAGCAAGGCTGGGCGT
GTGTTTGGGCGGTGTGCCGGGCTCCTGATGACCCTCAAGGGACTTCCCAGCACCTACAACAAAGACTTACAGGAG
GACAAGGAAGCTGTGTTTGAAGTGTCAGACACTATGAGTGCCGTGCTCCAGGTGGCCACTGGCGTCATCTCTACG
CTGCAGATTCACCAAGAGAACATGGGACAGGCTCTCAGCCCCGACATGCTGGCCACTGACCTTGCCTATTACCTG
GTCCGCAAAGGGATGCCATTCCGCCAGGCCCACGAGGCCTCCGGGAAAGCTGTGTTCATGGCCGAGACCAAGGGG
GTCGCCCTCAACCAGCTGTCACTGCAGGAGCTGCAGACCATCAGCCCCCTGTTCTCGGGCGACGTGATCTGCGTG
TGGGACTACGGGCACAGTGTGGAGCAGTATGGTGCCCTGGGCGGCACTGCGCGCTCCAGCGTCGACTGGCAGATC
CGCCAGGTGCGGGCGCTACTGCAGGCACAGCAGGCCTAGGTCCTCCCACACCTGCCCCCTAATAAAGTGGGCGCG
AG

5446/6881
FIGURE 5019

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GCGGACCCCAGAGAGCCCTGAGCAGCCCCGCCGCTGCCGGCCTAGTTACCGTCATACCACGGGAGGAGCCGCAGC
TGCCGCAGCCGGCCCCAGTCTCCATCACCGCAACCAATGAGCAGCAAGGCCGAGACCCAGCAGCCACCCGCCGCC
CCCGCCTTTCCCCCCACCGCCCCCCTCCCGTCCCCCCGCCGCCCCCGCCCTCAGCGCCGCCGACACCAAGCCCGG
CACTACGGGCAGCTGCGCAGGGAGCGGTGGTCCGGGCGGCCTCACATCGGCGGCGCCTGCCAGCGTGGACAAGAA
GGTCATCGCAGTGAAGGTTTTGGGAACAGTAAAATGGTTCAATGTAAGGAACGGATATGGTTTCATCAACAGGAA
TGACACCAAGGAAGATGTATTTGTACACCAGACTGCCATAAAGAATAACCCCAGGAAGTACCTTCGCAGTGTAGG
AGATGAAGAGACTGTGGAGTTTGATGTTGTTGAAGGAGAAGAGGGTGCGGAGGCAGCAAATGTTACAGATCCTGG
TGGTGTTCCAGTTCAAGGCAGTAAATATGCAGCAGATCGTAACCATTATAGACGCTATCCACGTCATAGGGGTCC
TCCACGCAATTACCAGCAAAATTACCAGAACAGTGAGAGTGGGGAAAAGACCGAGGGATCGGAGAATGCTCCCGA
AGGCCAGGCCCAACAATGCCGGCCCTACCGCAGGCAAAGGTTCCCACCTTACTACATGTGGAGACCCTGTGGGTG
TCGACCACAGTATTCCAGCCCTCCTGTGCAGGGAGAAGTGATGGAGGGTGCTGACAACCAGGGTGCAGGAGAACA
AGGTAGACCAGTGAGGCAGAATATGTATCGGGGATATAGACCACGATTCCGCAGGGGCCCTCCTTGCCAAAGACA
GCCTAGAGAGTACGGCAATGAAGAAGATAAAATCAAGGAGATGAGACCCAGGGTCAGCAGCCACCTCAACGTCGG
TACCGCAGCAACTTCAATTACCAACGCAGATGCCCAGAAAACCCTAAATCACAAGATGGCAAAGAGACAAAATCA
GCCAATCCACCAGCTGAGAATTCGTCTGCTCCCGAGGCTGAGCAGGGCGGGGCTGAGTAAATGCCGGCTTACCAT
CTCTACCATCATCCGGTTTAGTCATCCAACAAGAAGAAATATGAAATTCCAGCAATAAGAAATGAACAAAGATT
GGAGCTGAAGACCTTAAGTGCTTGCTTTTTGCCCGTTGACCAGATAAATAGAACTATCTGCATTATCTATGCAGC
ATGGGGTTTTTATTATTTTTACCTAAATATGTCTCTTTTTGGTAATAACAAACGTGTTTTTTTTAAAAAGCCTTG
TTTTTCTCAATACGCCTTTAAAGGTTTTTAAATTGTTTCATATCTGGTCAAGATGAGATTTTTAAGCACTTTATT
TTTAATTTGTAATAAAAGTTTACAACTTGATTTTTTCAAAAAAGTCAACAAACTGCAAGCACCTGTTAATAAAGG
TCTTAAATAATAATAATAAAAA
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FIGURE 5020

CCGCGCCACTTGGCCTGCCTCCGTCCCGCCGCGCCACTTCGCCTGCCTCCGTCCCCCGCCCGCCGCGCCATGCCT
GTGGCCGGCTCGGAGCTGCCGCGCCGGCCCTTGCCCCCCGCCGCACAGGAGCGGGACGCCGAGCCGCGTCCGCCG
CACGGGGAGCTGCAGTACCTGGGGCAGATCCAACACATCCTCCGCTGCGGCGTCAGGAAGGACGACCGCACGGGC
ACCGGCACCCTGTCGGTATTCGGCATGCAGGCGCGCTACAGCCTGAGAGATGAATTCCCTCTGCTGACAACCAAA
CGTGTGTTCTGGAAGGGTGTTTTGGAGGAGTTGCTGTGGTTATCAAGGGATCCACAAATGCTAAAGAGCTGTCT
TCCAAGGGAGTGAAAATCTGGGATGCCAATGGATCCCGAGACTTTTTGGACAGCCTGGGATTCTCCACCAGAGAA
GAAGGGGACTTGGGCCCAGTTTATGGCTTCCAGTGGAGGCATTTTGGGGCAGAATACAGAGATATGGAATCAGAT
TATTCAGGACAGGGAGTTGACCAACTGCAAAGAGTGATTGACACCATCAAAACCAACCCTGACGACAGAAGAATC
ATCATGTGCGCTTGGAATCCAAGAGATCTTCCTCTGATGGCGCTGCCTCCATGCCATGCCCTCTGCCAGTTCTAT
GTGGTGAACAGTGAGCTGTCCTGCCAGCTGTACCAGAGATCGGGAGACATGGGCCTCGGTGTGCCTTTCAACATC
GCCAGCTACGCCCTGCTCACGTACATGATTGCGCACATCACGGGCCTGAAGCCAGGTGACTTTATACACACTTTG
GGAGATGCACATATTTACCTGAATCACATCGAGCCACTGAAAATTCAGCTTCAGCGAGAACCCAGACCTTTCCCA
AAGCTCAGGATTCTTCGAAAAGTTGAGAAAATTGATGACTTCAAAGCTGAAGACTTTCAGATTGAAGGGTACAAT
CCGCATCCAACTATTAAAATGGAAATGGCTGTTTAGGGTGCTTTCAAAGGAGCTCGAAGGATATTGTCAGTCTTT
AGGGGTTGGGCTGGATGCCGAGGTAAAAGTTCTTTTTGCTCTAAAAGAAAAAGGAACTAGGTCAAAAATCTGTCC
GTGACCTATCAGTTATTAATTTTTAAGGATGTTGCCACTGGCAAATGTAACTGTGCCAGTTCTTTCCATAATAAA
AGGCTTTGAGTTAACTCACTGAGGGTATCTGACAATGCTGAGGTTATGAACAAAGTGAGGAGAATGAAATGTATG
TGCTCTTAGCAAAAACATGTATGTGCATTTCAATCCCACGTACTTATAAAGAAGGTTGGTGAATTTCACAAGCTA
TTTTTGGAATATTTTTAGAATATTTTAAGAATTTCACAAGCTATTCCCTCAAATCTGAGGGAGCTGAGTAACACC
ATCGATCATGATGTAGAGTGTGGTTATGAACTTTAAAGTTATAGTTGTTTATATGTTGCTATAATAAAGAAGTG
TTCTGC

FIGURE 5021

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TAAAAACAGGGAATGACTCTACTAATGATGGGGTCAGCAGATGCTCTTCCAGAAGAACCCTCAGCCAAAACTGTC
TTCGTAGAAGACATGACAGAAGAACAGTTAGCATCTGCTATGGAGTTACCATGTGGATTGACAAACCTTGGTAAC
ACTTGTTACATGAATGCCACAGTTCAGTGTATTCGTTCTGTGCCTGAACTCAAAGATGCCCTTAAAAGGTATGCA
GGTGCCTTGAGAGCTTCAGGGGAAATGGCTTCAGCGCAGTATATTACTGCAGCCCTTAGAGATTTGTTTGATTCC
ATGGATAAAACTTCTTCCAGTATTCCACCTATTATTCTACTGCAGTTTTTGCACATGGCTTTCCCACAGTTTGCC
GAGAAAGGTGAACAAGGACAGTATCTTCAACAGGATGCTAATGAATGTTGGATACAAATGATGCGAGTATTGCAA
CAGAAATTGGAAGCAATAGAGGATGATTCTGTTAAAGAGACAGACTCCTCATCTGCATCGGCAGCGACACCTTCT
AAAAAGAAAAGTTTAATCGATCAGTTCTTCGGTGTTGAGTTTGAAACTACCATGAAATGTACAGAATCTGAAGAA
GAAGAAGTCACCAAAGGAAAGGAAAATCAACTTCAGCTTAGCTGTTTTATCAATCAGGAGTCAAGTATCTTTTT
ACAGGACTTAAATTGCGACTTCAGGAAGAAATCACCAAACAGTCTCCAACGTTGCAAAGAAATGCCTTGTATATC
AAATCTTCCAAGATCAGCCGGCTGCCTGCTTACTTGACCATTCAGATGGTTCGATTTTTTTATAAAGAGAAGGAA
TCTGTGAATGCCAAAGTTCTTAAGGATGTTAAATTTCCTCTTATGTTGGATATGTATGAACTGTGTACACCAGAA
CTTCAAGAGAAAATGGTGTCTTTTCGATCCAAATTCAAGGATCTAGAAGATAAAAAAGTGAATCAGCAGCCAAAT
ACAAGTGACAAAAAGAGTAGTCCCCAGAAAGAAGTTAAGTATGAACCCTTTTCTTTTGCTGATGATATTGGCTCC
AATAATTGTGGATACTATGACTTACAAGCAGTACTAACACACCAGGGAAGGTCTAGTTCTTCAGGTCATTATGTA
TCATGGGTGAAAAGGAAACAAGATGAATGGATTAAGTTTGATGATGACAAAGTCAGCATCGTAACACCAGAAGAT
ATCTTACGGCTTTCTGGTGGTGGAGACTGGCATATCGCTTACGTTCTACTCTATGGGCCTCGCAGAGTTGAAATA
ATGGAAGAGGAAAGTGAACAGTAATCTTCATTTTAGTATTTATGCTTAGATGTGAAAATAAATGTTATTTGTTGA
TCATTTCTATAATCCAGAGCTTTAGAGGAAGACACATAGGTGGGTTTATGTTTCACCTCATTTGGAACAAAAGAG
GACAGAAGCAGACCACTCTGTGCACCAACCTAAAAAATTACAGAGAAGAGAAAATTATCTTTGGATTGTGCTGCC
CTATATAAAGGTGGCAGAAAGACATTTTTAAAAAGCTTATTATTTCTTGCATTATTTTAAAAAGTTCAGAGTTGA
AATGCCTTTCAACCATTTCCTTCTGTGGTCATTTTTCTTGCTGCCTTTTTCACCCAAGATTCAGCAGTCAGATGT
TTACTGCACACCTATTACCTATTATTTGCTGTTCTTGCATGGTTCAAACCACCATTCTGTAGCCACCCATCCTTT
GCCTTATCTAACAAACATTTTTCCAGGAAGGTGGAAAAGGAAGTGTTGCTCTCATTGTGTGACTCAGTGCTGCTG
TCCATCCCATGGAAACATGGGCACAATCAAGTATTTGTCCAGCCTATTGCAGGCTTTTCCTGACTTTAAAATAAA
TTGTGATCAATAATAGTACCTTTGATTATACATTTATTATTGTGTCTCTCTGATGTACTGTGGATTGTACATT
TAACTTTGGAATGGCTTTGTAATAATCAGTCTTAAGAAAATGTTGACAAGCTCTGGTTGCTTATTTTTAGAAAAT
GAGGACATTTAATAATAATAAAAAAAAAGGGATTAATAGCTTTTGACCTCAAGTCTTTTGTCTTCTGAGTGTTGG
AGCTTGGCTGAAGACATGTTTAATACTGTACAATTTCTGAAGATGGTTATTAACACTGTGCTGTTAAGCATCCAT
TTAAAAATATGTTATCTTCTTTGCCTGCC
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FIGURE 5022

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GGTATTCAGGAAGGAACACAATGTACCAAATGTAAAAATAACTGGGCACTGAAGTTTTCTATCATATTATTATAC
ATTTTGTGTGCCTTGCTAACAATCACAGTAGCCATTTTGGGATATAAAGTTGTAGAGAAAATGGACAATGTCACA
GGTGGCATGGAAACATCTCGCCAAACCTATGATGACAAGCTCACAGCAGTGGAAAGTGACCTGAAAAAATTAGGT
GACCAAACTGGGAAGAAAGCTATCAGCACCAACTCAGAACTCTCCACCTTCAGATCAGACATTCTAGATCTCCGT
CAGCAACTTCGTGAGATTACAGAAAAAACCAGCAAGAACAAGGATACGCTGGAGAAGTTACAGGCGAGCGGGGAT
GCTCTGGTGGACAGGCAGAGTCAATTGAAAGAAACTTTGGAGAATAACTCTTTCCTCATCACCACTGTAAACAAA
ACCCTCCAGGCGTATAATGGCTATGTCACGAATCTGCAGCAAGATACCAGCGTGCTCCAGGGCAATCTGCAGAAC
CAAATGTATTCTCATAATGTGGTCATCATGAACCTCAACAACCTGAACCTGACCCAGGTGCAGCAGAGGAACCTC
ATCACGAATCTGCAGCGGTCTGTGGATGACACAAGCCAGGCTATCCAGCGAATCAAGAACGACTTTCAAAATCTG
CAGCAGGTTTTTCTTCAAGCCAAGAAGGACACGGATTGGCTGAAGGAGAAAGTGCAGAGCTTGCAGACGCTGGCT
GCCAACAACTCTGCGTTGGCCAAAGCCAACAACGACACCCTGGAGGATATGAACAGCCAGCTCAACTCATTCACA
GGTCAGATGGAGAACATCACCACTATCTCTCAAGCCAACGAGCAGAACCTGAAAGACCTGCAGGACTTACACAAA
GATGCAGAGAATAGAACAGCCATCAAGTTCAACCAACTGGAGGAACGCTTCCAGCTCTTTGAGACGGATATTGTG
AACATCATTAGCAATATCAGTTACACAGCCCACCACCTGCGGACGCTGACCAGCAATCTAAATGAAGTCAGGACC
ACTTGCACAGATACCCTTACCAAACACACAGATGATCTGACCTCCTTGAATAATACCCTGGCCAACATCCGTTTG
GATTCTGTTTCTCTCAGGATGCAACAAGATTGATGAGGTCGAGGTTAGCACTGAAGTAGCCAACTTATCAGTG
ATTATGGAAGAAATGAAGCTAGTAGACTCCAAGCATGGTCAGCTCATCAAGAATTTTACAATACTACAAGGTCCA
CCGGGCCCCAGGGGTCCAAGAGGTGACAGAGGATCCCAGGGACCCCCTGGCCCAACTGGCAACAAGGGACAGAAA
GGAGAGAAGGGGGAGCCTGGACCACCTGGCCCTGCGGGTGAGAGAGGCCCAATTGGACCAGCTGGTCCCCCCGGA
GAGCGTGGCGGCAAAGGATCTAAAGGCTCCCAGGGCCCCAAAGGCTCCCGTGGTTCCCCTGGGAAGCCCGGCCCT
CAGGGCTCCAGTGGGGACCCAGGCCCCCCGGGCCCACCAGGCAAAGAGGGACTCCCCGGCCCTCAGGGCCCTCCT
GGCTTCCAGGGACTTCAGGGCACCGTTGGGGAGCCTGGGGTGCCTGGACCTCGGGGACTGCCAGGCTTGCCTGGG
GTACCAGGCATGCCAGGCCCCAAGGGCCCCCCCGGCCCTCCTGGCCCATCAGGAGCGGTGGTGCCCTGGGCCTGC
AGAATGAGCAACCCCAGCACCGGAGGACAATGGCTGCCCGCCTCACTGGAAGAACTTCACAGACAAATGCTACTA
TTTTTCAGTTGAGAAAGAAATTTTTGAGGATGCAAAGCTTTTCTGTGAAGACAAGTCTTCACATCTTGTTTTCAT
AAACACTAGAGAGGAACAGCAATGGATAAAAAAACAGATGGTAGGGAGAGAGAGCCACTGGATCGGCCTCACAGA
CTCAGAGCGTGAAAATGAATGGAAGTGGCTGGATGGGACATCTCCAGACTACAAAAATTGGAAAGCTGGACAGCC
GGATAACTGGGGTCATGGCCATGGGCCAGGAGAAGACTGTGCTGGGTTGATTTATGCTGGGCAGTGGAACGATTT
CCAATGTGAAGACGTCAATAACTTCATTTGCGAAAAAGACAGGGAGACAGTACTGTCATCTGCATTATAACGGAC
TGTGATGGGATCACATGAGCAAATTTTCAGCTCTCAAAGGCAAAGGACACTCCTTTCTAATTGCATCACCTTCTC
ATCAGATTGAAAAAAAAAAAGCACTGAAAACCAATTACTGAAAAAAAATTGACAGCTAGTGTTTTTACCATCCG
TCATTACCCAAAGACTTGGGAACTAAAATGTTCCCCAGGGTGATATGCTGATTTTCATTGTGCACATGGACTGAA
TCACATAGATTCTCCTCCGTCAGTAACCGTGCGATTATACAAATTATGTCTTCCAAAGTATGGAACACTCCAATC
AGAAAAAGGTTATCATTGGTCGTTGAGTTATGGGAAGAACTTAAGCATATACTGTGTAAACAGTGCCATACATTT
CTAAAATCCCAAGTGTAGGAAAAATATGCAGACATACAGATATATAGGCCAACTATTAGTAATAATATGAAATAT
ACTTAAAGAGCTTTTAAAACTTTGTATTTTTGTACAAAATATTTGTCTTTTACAATTTTTTTCCTTTTTTTTTT
TTGTCATTTTACCGACATAATACATGGAGCCAAAGAAAACAATAATGGTACTAATAAAAACTCCTAGGGTTTCCT
GTCAGATTTAATTCTACCCAGTGGCAAAGAATTTTTTCAATTGTGGCTTTAAAAAAATAATTAAATATACATGTA
TATATATAT
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FIGURE 5023

CTCGAGCCACGAAGGCCCCGCTGTCCTGTCTAGCAGATACTTGCACGGTTTACAGAAATTCGGTCCCTGGGTCGT
GTCAGGAAACTGGAAAAAAGGTCATAAGC<u>ATG</u>AAGCGCAGTTCAGTTTCCAGCGGTGGTGCTGGCCGCCTCTCCA
TGCAGGAGTTAAGATCCCAGGATGTAAATAAACAAGGCCTCTATACCCCTCAAACCAAAGAGAAACCAACCTTTG
GAAAGTTGAGTATAAACAAACGACATCTGAAAGAAAGTCTCGCTATTTGGCAAAAGAACTAGTGGACATGGAT
CCCGGAATAGTCAACTTGGTATATTTTCCAGTTCTGAGAAAATCAAGGACCCGAGACCACTTAATGACAAAGCAT
TCATTCAGCAGTGTATTCGACAACTCTGTGAGTTTCTTACAGAAAATGGTTATGCACATAATGTGTCCATGAAAT
CTCTACAAGCTCCCTCTGTTAAAGACTTCCTGAAGATCTTCACATTTCTTTATGGCTTCCTGTGCCCCTCATACG
AACTTCCTGACACAAAGTTTGAAGAAGAGGTTCCAAGAATCTTTAAAGACCTTGGGTATCCTTTTGCACTATCCA
AAAGCTCCATGTACACAGTGGGGGCTCCTCATACATGGCCTCACATTGTGGCAGCCTTAGTTTGGCTAATAGACT
GCATCAAGATACATACTGCCATGAAAGAAAGCTCACCTTTATTTGATGATGGGCAGCCTTGGGGAGAAGAAACTG
AAGATGGAATTATGCATAATAAGTTGTTTTTGGACTACACCATAAAATGCTATGAGAGTTTTATGAGTGGTGCCG
ACAGCTTTGATGAGATGAATGCAGAGCTGCAGTCAAAACTGAAGGATTTATTTAATGTGGATGCTTTTAAGCTGG
AATCATTAGAAGCAAAAAACAGAGCATTGAATGAACAGATTGCAAGATTGGAACAAGAAAGAGAAAAAGAACCGA
ATCGTCTAGAGTCGTTGAGAAAACTGAAGGCTTCCTTACAAGGAGATGTTCAAAAGTATCAGGCATACATGAGCA
ATTTGGAGTCTCATTCAGCCATTCTTGACCAGAAATTAAATGGTCTCAATGAGGAAATTGCTAGAGTAGAACTAG
AATGTGAAACAATAAAACAGGAGAACACTCGACTACAGAATATCATTGACAACCAGAAGTACTCAGTTGCAGACA
TTGAGCGAATAAATCATGAAAGAAATGAATTGCAGCAGACTATTAATAAATTAACCAAGGACCTGGAAGCTGAAC
AACAGAAGTTGTGGAATGAGGAGTTAAAATATGCCAGAGGCAAAGAAGCGATTGAAACACAATTAGCAGAGTATC
ACAAATTGGCTAGAAAATTAAAACTTATTCCTAAAGGTGCTGAGAATTCCAAAGGTTATGACTTTGAAATTAAGT
TTAATCCCGAGGCTGGTGCCAACTGCCTTGTCAAATACAGGGCTCAAGTTTATGTACCTCTTAAGGAACTCCTGA
ATGAAACTGAAGAAGAAATTAATAAAGCCCTAAATAAAAAAATGGGTTTGGAGGATACTTTAGAACAATTGAATG
CAATGATAACAGAAAGCAAGAGAAGTGTGAGAACTCTGAAAGAAGAAGTTCAAAAGCTGGATGATCTTTACCAAC
AAAAAAATTAAGGAAGCAGAGGAAGAGGATGAAAAATGTGCCAGTGAGCTTGAGTCCTTGGAGAAACACAAGCACC
TGCTAGAAAGTACTGTTAACCAGGGGCTCAGTGAAGCTATGAATGAATTAGATGCTGTTCAGCGGGAATACCAAC
TAGTTGTGCAAACCACGACTGAAGAAAGACGAAAAGTGGGAAATAACTTGCAACGTCTGTTAGAGATGGTTGCTA
CACATGTTGGGTCTGTAGAGAAACATCTTGAGGAGCAGATTGCTAAAGTTGATAGAGAATATGAAGAATGCATGT
CAGAAGATCTCTCGGAAAATATTAAAGAGATTAGAGATAAGTATGAGAAGAAAGCTACTCTAATTAAGTCTTCTG
AAGAA<u>TGA</u>AGATAAAATGTTGATCATGTATATATATCCATAGTGAATAAAATTGTCTCAGTAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5024

MKRSSVSSGGAGRLSMQELRSQDVNKQGLYTPQTKEKPTFGKLSINKPTSERKVSLFGKRTSGHGSRNSQLGIFS
SSEKIKDPRPLNDKAFIQQCIRQLCEFLTENGYAHNVSMKSLQAPSVKDFLKIFTFLYGFLCPSYELPDTKFEEE
VPRIFKDLGYPFALSKSSMYTVGAPHTWPHIVAALVWLIDCIKIHTAMKESSPLFDDGQPWGEETEDGIMHNKLF
LDYTIKCYESFMSGADSFDEMNAELQSKLKDLFNVDAFKLESLEAKNRALNEQIARLEQEREKEPNRLESLRKLK
ASLQGDVQKYQAYMSNLESHSAILDQKLNGLNEEIARVELECETIKQENTRLQNIIDNQKYSVADIERINHERNE
LQQTINKLTKDLEAEQQKLWNEELKYARGKEAIETQLAEYHKLARKLKLIPKGAENSKGYDFEIKFNPEAGANCL
VKYRAQVYVPLKELLNETEEEINKALNKKMGLEDTLEQLNAMITESKRSVRTLKEEVQKLDDLYQQKIKEAEEED
EKCASELESLEKHKHLLESTVNQGLSEAMNELDAVQREYQLVVQTTTEERRKVGNNLQRLLEMVATHVGSVEKHL
EEQIAKVDREYEECMSEDLSENIKEIRDKYEKKATLIKSSEE

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FIGURE 5025A

GAGAAGAAGTGGCAGGTGATGCTGAAGCGGGGGAGAAGCGGCAGAGCCGGCCACACAGTGCAGGGGATGGAGACA
GGTGCTGGGCTGGTCCTCCTGCAGCATCCTCAGTTGTTGGAGGGCAGTCATCCTCAGGCCGTACCCAGCCAGAGA
AGAAAAAGAACAGTGTGAAGCCACGTGTGATAGCCGTCCAACATCGGCTCTTCCCTCCAATTACATTGTAGTTGA
TTGTAGTCTCAAACCATGAATTATGTGGGACAGCTGGCTGGGCAGGTGATTGTCACTGTGAAGGAACTCTACAAG
GGCATTAACCAGGCCACCCTCTCTGGGTGCATTGATGTCATCGTGGTACAGCAGCAGGATGGCAGCTATCAGTGT
TCACCTTTTCACGTTCGGTTTGGAAAGCTGGGAGTCCTGAGATCCAAAGAGAAAGTGATTGATATAGAAATCAAC
GGCAGTGCAGTGGATCTTCACATGAAGTTGGGTGATAACGGAGAAGCTTTCTTTGTTGAGGAGACTGAAGAAGAA
TATGAAAAGCTTCCTGCTTACCTTGCCACCTCACCAATTCCTACTGAAGATCAGTTCTTTAAAGATATTGACACC
CCTTTGGTGAAATCGGGTGGAGATGAAACACCATCTCAGAGTTCAGCATCTCACACGTCTTGGAAACAGAGACA
ATTTTTACTCCAAGTTCTGTGAAAAAGAAAAAACGAAGGAGAAAGAAATACAAACAGGACAGTAAGAAGGAAGAG
CAGGCCGCATCTGCTGCTGCAGAAGACACATGTGATGTAGGCGTGAGCTCCGATGATGACAAGGGGGCCCAGGCA
GCACGAGGATCTTCAAATGCTTCCTTGAAAGAAGAAGAATGTAAAGAGCCTTTGCTCTTCCATTCTGGGGATCAT
TACCCCTTATCTGATGGAGATTGGTCCCCTTTAGAGACCACCTATCCCCAGCAGCGTGTCCTAAGAGTGATTCA
GAGCTGGAGGTGAAACCTGCGGAGAGCCTGCTCAGATCAGAGTCTCACATGGAGTGGACGTGGGGCGGATTCCCA
GAGTCCACCAAGGTCAGCAAAAGAGAACGATCTGACCATCATCCTAGGACAGCTACAATTACACCATCAGAAAAT
ACTCATTTTCGGGTAATTCCCAGTGAGGACAACCTCATCAGTGAAGTTGAGAAGGATGCTTCCATGGAAGACACT
GTCTGTACCATAGTGAAGCCCAAACCCAGAGCCCTGGGTACACAGATGAGCGACCCAACATCTGTGGCAGAGCTT
CTCGAACCTCCTCTTGAGAGTACTCAGATTTCATCTATGTTAGATGCTGACCACCTTCCCAACGCAGCCTTAGCG
GAGGCGCCCTCAGAATCCAAACCGGCAGCTAAAGTAGACTCGCCGTCAAAGAAGAAAGGTGTTCACAAAAGAAGC
CAACACCAGGGACCTGATGATATTTACCTTGATGACTTAAAGGGTCTAGAACCTGAAGTTGCAGCTCTTTATTTC
CCTAAAAGTGAATCGGAGCCCGGTTCCAGGCAGTGGCCCGAGTCTGACACACTCTCTGGCTCCCAGTCCCCACAG
TCCGTGGGAAGCGCAGCTGCAGATAGCGGCACCGAGTGCCTCTCAGATTCTGCCATGGACTTGCCTGACGTTACC
CTCTCCCTTTGCGGGGGCCTCAGTGAAAATGGAGAAATTTCAAAAGAAAAATTCATGGAGCATATCATTACTTAT
CACGAATTTGCAGAAAACCCTGGACTTATAGACAATCCTAACCTTGTAATAAGGATATATAATCGTTACTATAAC
TGGGCTTTGGCAGCTCCCATGATCCTTAGCTTGCAAGTATTCCAGAAGAGCTTGCCTAAGGCCACAGTTGAGTCC
TGGGTGAAAGACAAGATGCCAAAGAAATCTGGTCGCTGGTGGTTTTGGCGAAAGAGAGAAAGCATGACCAAACAG
CTGCCAGAATCCAAGGAGGGAAAATCTGAGGCACCGCCAGCCAGTGACCTGCCATCCAGCTCCAAGGAGCCGGCC
GGTGCCAGGCCGGCCGAGAATGACTCCTCGAGTGACGAGGGATCACAGGAGCTCGAAGAATCCATCACAGTGGAC
CCCATCCCCACAGAGCCCCTGAGCCACGGCAGCACAACTTCATATAAGAAGTCTCTCCGCCTCTCCTCAGACCAG
ATCGCAAAACTGAAGCTCCACGATGGCCCAAATGATGTTGTGTTTAGTATTACAACCCAGTATCAAGGCACCTGT
CGCTGTGCAGGGACCATTTACCTGTGGAACTGGAATGACAAGATCATCATTTCTGATATTGATGGGACAATAACC
AAGTCGGATGCTTTGGGACAGATTCTCCCACAGCTGGGCAAAGACTGGACCCACCAGGGTATAGCAAAGCTCTAC
CATTCCATCAATGAGAATGGCTACAAGTTTCTGTACTGCTCGGCTCGTGCCATCGGCATGGCCGACATGACCCGT
GGCTACCTGCACTGGGTCAATGACAAGGGCACAATCTTGCCCCGGGGCCCCCTGATGCTGTCCCCCAGCAGCTTG
TTCTCCGCCTTCCACAGAGAAGTGATAGAAAAGAAACCAGAGAAGTTCAAAATTGAGTGTCTAAATGATATCAAG
AATCTGTTTGCCCCGTCTAAGCAGCCCTTCTATGCTGCCTTTGGAAACCGTCCAAATGATGTCTATGCCTACACA
CAAGTTGGAGTTCCAGACTGTAGAATATTCACCGTGAACCCCAAGGGTGAATTAATACAAGAAAGAACCAAAGGA
AACAAGTCATCGTATCACAGGCTGAGTGAGCTCGTGGAGCATGTGTTCCCCCTTCTCAGTAAGGAGCAGAATTCC
GCTTTTCCCTGCCCGGAGTTCAGCTCCTTCTGCTACTGGCGAGACCCGATCCCTGAAGTGGACCTGGATGACCTG
TCTTGAGGCGGCACCTCAGTGGGTGGGCAGGGCTTGGTCCCCCTCCCCACAGCAAGGGAAGGCAGCTGGCTCTTC
TGCTGACCTCAGATACCAGCCTTCCCCAGCGGGGACGGGTGCTTCTGGAGCTGGTCCCGCCATCCTCCTTTGCCT
TCCCAGGCCAGCTGCTCAGGCTCGGCAGGTCTGCAGCTCAGCTCCTGGAAGGAGAAGGGAGGAACTGGGCCTGGG
GCTGGAGGCCTGGGATCCCTCCTTTGTGGGTCGCACACATGTTTCCTGCTGTGAGCTGGGGCCTCCTTCCATTGC
ATCATTTTAAAGGAAGAAAAAAGCAGCTAAAAAAGAGTGGACCAAAACACTGCACACAGTGAAGTGTTCCAGTTT
CCACTGGGCAGTTGAGGTGGCTTCTGTAACCAGGGCTGTCTTCAGATGTCAGGGTCCCTGAACTGCTGCGGGCCC
AGTCAGTGATGCTGGCTGAAGCTGCCTGTGCACGTTTCTTCTCTGGTCGCCTCATTTCCTGCTACACTGAAGGGG
TCAGCTGCTCCAGTGGGCCAAGTTGGGCAGGACCCCCGCCCCTGCAGGGCCCATGCACCAGAGCCACTGAGCCCA
GTCCCATAAACCTGGCCCTCTTTGGGGAAAGATCCCCACAGAGCATCCTCCTCTCATCTGTGACAACTCCACGAG

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FIGURE 5025B

CCCTTAATTTCTTAGTCCTCACCAGAAGAACAGGTCTCACAAGTATATATTTGATGTCTGTAATAAAAGTGGGAA
GGTGGGTCTTAAAACAGACCAAACCCCGCCCCGCCCCCAACAACTCTGCTTTTAGGGAGGCCTCCGAAATGCAGA
TAGGCGGTTGAGTGGGGTCCTGGGAAGAGCGCTGAATCCCTCTGCTTGCTGCCTGGTGTGGGCCTTTGGAAAGCA
TCTTGCCTTGGGACAGGATTTCTAAAATTCTGTGATTCAGATTTGTCAGGGAAGCACAGTGAAGCTTGCTTAAAG
GCACTGGCCAGCAGTGTGTGACTTTGGCTTTTGGGATCACACCCTGTAATCGGGCCCGTGGAAGCAGCGTCAAAG
AGGGGTCTTGGAGCTCCTATGGAGCAGACTGCCCCCCGAGCAGTGTCCCCAGCCTAGCCCTGTGAGACCCCATGG
GGACACGGGTGCCTATGTATTTTCACTAAAATATACATGGTAGCTCCATTTACTGATGCGGTTGTAATGAGCTCA
CATCGTGTCTGAAGAGATGGCACCAGGGAAAGGTGTGCCATAAGCTGCTCCAGAGCTTTTGGTATGCTGAGTGTT
GACAGAGCTGCACTCTTAACATCAAGAGAACTGTCAGGAGCCCAGAACCAACCCCAGGTCTTGGTCTCCATTGGC
GAGAACACAGGACGTGGTGGTTCCTGAGCAGAGAGGGATCTGCAGATACAGGCTTGGCGCTCGGGGTGGTCTCGT
GGCCAACTCTTCATGCCCCTGCCGTTGTAGTGGAACCTCTACATGTTTTAGTTTGCTTCACCTAAAATAATGCTG
ATCTAGAGATAGAGAAATAGGGGTGGTTATTTTTCCAGATTGGAGAGTTGAAAGTCCCTGACTGATTTCAGCCAT
TTTCCTAGTGCTTGTCGGATGCAGAGACAATGTTGAAATCCCCTAAACACAGTTCTCAGTGGCAAAACCTAGGAA
GGCTCATGTTCCCAGAGAAGGGACCACATGAGCCTTCTCCCATGCAAAGCTTCCCCCAGCTTAAATAGTTGATAA
GGACTAATTGTTTAATGAGTTTATTTATCTACAGTAGGTTAGGGATCCTGGGTTCTGTTTATATGAAGTTCTTCC
CAGTTTGTGAATTCTAGTACAGCAGCCATGCAGCCACCTTATTTCATAGATGCCATCGTGTGTCCTCTTGACTA
CCTTCTATTTAGAGGAAGAATGAGAGCTTTGTGTGTTTAACTGAGCTTATAGTAGGACTTCTTTGCATATGTATG
GTACTGAAAAATCTTAATATACATCTTTAATCCTTTTTAGGTTGTCCTTTAAAGAGTTTTTGACTAGTTTCTTTT
TCTTGACAGCTCTTCTCTTTGGACACATGGGCCTTCTTAGAGGGTTCAGTCTAGGACCCGGCTCTCCTGGCCCTG
TGTTGAGGGTAGCTGGTCCCTCTGTCCCTGTGTCTGCTAGCACTAGACTTTGTTGCTGCAGATTGATCCAGTGGG
TACATAGGCTAATTAATGTGAGTCTTTTTCCTTGTTTAAAGGAGTCCCTCTTGCTGAAAGTAGATGATTACTATT
GCTGTAGTGTTAGGAAAGTATTAAGTTTGTGCTGAAAATCCATTGCCATTTGGTACAAATGACATTTGTTCTTTC
TGTGAAAGAGATGCCCTCGAGTGTGTTTGTACACAAACCCTTAGGATGGTGAGTTGAAGCATCACCCTCGCGCTA
TCTTCAGTGACGGGTGACGGCTCAGGGAGATGGCAGGCAGATTGGGCTCTAAGTCATTATTCTCTCAGTTACTCC
ATTGGTGAAATGGCCCTTTCCCTCTTTGCAGTTCAGTCTAAGTCTCGTATTTGCTTTGCTGTCTGTGTGCTGAAG
CTCGTCCCGTGTGAGTTGCTGTCTGCCCCTTGTCAGGCTGTGAGGTGCTCGTGTAGACCTGGAGCATGCAGGCTG
CCTCCGTTTTTGGGTACTGTGTTGTGTTTTGCTCTGTCTAAAAACATCTGCATAGTTTTCAACTGGAAAAAGAAA
AAACTTAAAAATGGGATGTCCTAAAATGAAAGCTGCTCAAAGTCACAGAACAACCGAGGGACAAAGGAGATTGGA
TGACTGGGAAGCGCTGGCCCGGAACAGCCCCTGCAACTGTGGGGCCTGCACACAGCCCTTCCACAGTTGGCACTG
CAGGTGCAGGCCAACCCTTTAAAGAATAAACAAGGAAGTCAGCTCTTTCACTTTTTACAAGTTGGCAAAAACAGA
CTTCCGGGGAATTTCGATGTTTTCCCGTGTTGTAGAGCTTCCAGGGTTTAATAAAACTGGTTAAAAATTGAGTCT
TTCCCTGAAGTAAGTGCTCTTTCCAGATGAAAACTACTCTTTTGGTTTTGTTTGAAAGTAAGAAAGGGAGGGGAA
ACTTTGCTCTTTTAATAATTATGTTCAGCCTATGATGAAGTATTTGATTATTAGACAGCAATGTCACTAATAAGT
TTTAAGTTGTCCAAAGTTAATTGTAAACATCATCAGTACAGTACTCTTAGTTACAGTAAAGCAATTGTTGCAAGA
TGAATGGCTAATATTTTGGTGCAGTGTTTGATGTTCAAAACAAAATGTTACAACAATAAACGAACATAACAT

FIGURE 5026

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GAATTAAACAACCACCATGTCGAGCAAAAAGGCAAAGACCAAGACCACCAAGAAGCGCCCTCAGCGTGCAACATC
CAATGTGTTTGCCATGTTTGACCAGTCACAGATTCAGGAGTTCAAAGAGGCCTTCAACATGATTGATCAGAACAG
AGATGGCTTCATCGACAAGGAAGATTTGCATGATATGCTTGCTTCTCTAGGGAAGAATCCCACTGATGCATACCT
TGATGCCATGATGAATGAGGCCCCAGGGCCCATCAATTTCACCATGTTCCTGACCATGTTTGGTGAGAAGTTAAA
TGGCACAGATCCTGAAGATGTCATCAGAAACGCCTTTGCTTGCTTTGATGAAGAAGCAACAGGCACCATTCAGGA
AGATTACCTAAGAGAGCTGCTGACAACCATGGGGGATCGGTTTACAGATGAGGAAGTGGATGAGCTGTACAGAGA
AGCACCTATTGACAAAAAGGGGAATTTCAATTACATCGAGTTCACACGCATCCTGAAACATGGAGCCAAAGACAA
AGATGACTGAAAGAACTTTAGCTAAAATCTTCCAGTTACATTGTCTTACTCTCTTTTACTTCTCAGACACTTCCC
CCACCCTCATAGAACCTGTTGCATGCAACTTAGTTTCACAGCTTTGCCTCTTCTTTTTGATGTATTTATTCCAGA
CCTTTCTGCCACTTAGCACTTGTATAATCAGACTGGAAATGGGGATGAGGGTGTAAATTGTATTGAAAAAGATCG
CGAATAAAAATCAACAAATGTGAAAGCCCAGAAAAATATATTCGTATTTCTGGTTTTGCTGGATTTTTACATTTT
TATATAATAAAAATGTTATTTTGAAATAAAGATTATGCTGACTCAAATGCAATGT
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FIGURE 5027

GAATTAAACAACCACCATGTCGAGCAAAAAGGCAAAGACCAAGACCACCAAGAAGCGCCCTCAGCGTGCAACATC
CAATGTGTTTGCCATGTTTGACCAGTCACAGATTCAGGAGTTCAAAGAGGCCTTCAACATGATTGATCAGAACAG
AGATGGCTTCATCGACAAGGAAGATTTGCATGATATGCTTGCTTCTCTAGGGAAGAATCCCACTGATGCATACCT
TGATGCCATGATGAATGAGGCCCCAGGGCCCATCAATTTCACCATGTTCCTGACCATGTTTGGTGAGAAGTTAAA
TGGCACAGATCCTGAAGATGTCATCAGAAACGCCTTTGCTTGCTTTGATGAAGAAGCAACAGGCACCATTCAGGA
AGATTACCTAAGAGAGCTGCTGACAACCATGGGGGATCGGTTTACAGATGAGGAAGTGGATGAGCTGTACAGAGA
AGCACCTATTGACAAAAAGGGGGAATTTCAATTACATCGAGTTCACACGCATCCTGAAACATGGAGCCAAAGACAA
AGATGACTGAAAGAACTT

FIGURE 5028

AACCACCACCATGTCGAGCAAAAGAACAAAGACCAAGACCAAGAAGCGCCCTCAGCGTGCAACATCCAATGTGTT
TGCTATGTTTGACCAGTCACAGATTCAGGAGTTCAAAGAGGCCTTCAACATGATTGATCAGAACAGAGATGGTTT
CATCGACAAGGAAGATTTGCATGATATGCTTGCTTCTTTAGGGAAGAATCCAACTGATGAGTATCTAGATGCCAT
GATGAATGAGGCTCCAGGCCCCATCAATTTCACCATGTTCCTCACCATGTTTGGTGAGAAGTTAAATGGCACAGA
TCCTGAAGATGTCATCAGAAATGCCTTTGCTTGCTTTGATGAAGAAGCAACTGGCACCATACAGGAAGATTACTT
GAGAGAGCTGCTGACAACCATGGGGGATCGGTTTACAGATGAGGAAGTGGATGAGCTGTACAGAGAAGCACCTAT
TGATAAAAAGGGGAATTTCAATTACATCGAGTTCACACGCATCCTGAAACATGGAGCCAAAGACAAAGATGACTG
AAATAACTTCAAATTCCAGCCAAACGTTCCTTGTTGCCACTTTGGGTATTCTGAGATTTCTCTTGCATGCCCTT
AGCTTTACAGCTTTTGCATTTCCTGTTGTATTTATTCTCAGCCATTTTGGGCATATGTATCTTTATAATCAGACT
GGAAACGGGACTTTCTATTAATATCATTTTCAGAATAAAAAATAGGGTAATTTAACCTACCAGCCCTTCTCCCCC
AATAACTGTGGTCTATACAGAGTCAATATATTTTTTCAGAGAAAGTTATTCGCTCGATTTTTTCTGAATCATAAT
TAAACTTTATGATAAAATA

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FIGURE 5029

MSSKRTKTKTKKRPQRATSNVFAMFDQSQIQEFKEAFNMIDQNRDGFIDKEDLHDMLASLGKNPTDEYLDAMMNE
APGPINFTMFLTMFGEKLNGTDPEDVIRNAFACFDEEATGTIQEDYLRELLTTMGDRFTDEEVDELYREAPIDKK
GNFNYIEFTRILKHGAKDKDD

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FIGURE 5030

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ATGCACGCACACACGCATACAGACACCACACACGAGAGAGAGAGATACAAAAGCAGACCAGAGGCACCTTTTAGA
CTGACACATGAGTGGATTCGGAGTCTGCAGGTTGCAGCAGAGGAAACTGTGAGCTGGAGAGGCAACCTCATTTCT
AGCAGCGGCAGAGTTTTGGGGCCTCTTTGGAGACAGGGACGTGGGCACAGGGATCTAATGGAGACAGCCCATCAG
CCTGCAGAAGGAACCAGGTCATTGGCCCTGGCAGATCCTTCTGCCCATAGCCTGCTATTGGGTTCTGATAACATC
CAGGACTCAGGACTCAGCTTTGACTTTGCTTTTGGCTGCCCGTATTCAGACATGAACTTGAAAAAGGAGGCAACA
CTTCACGATCGTTTGAGAGAACAAACACAGGCAAATTTGGAATCAGACTCTTCACATTCAAAATCAAAAAGCCTC
TGTAGTTTGAACTTCAATGGAAAACATGAAAAGGTGAACAGTCAGCCCAGGCAAAAGGCAATCATGTTCAAGACC
TTGAGCACCCTAGACCCTGACTGTGCAAGATTTGAAGGGACGACTGCTTCTCCTAAGCCTCAGAGCCTTGCTCTT
TGCATTCAGCAGGATAATGAATCTAGATTTTATTTCTGTTCTTTGCCCAGACTTGTACAGCAGGCAAAGTGTTTG
AAAATCAAAGGAAAAGAAGATATTGACTTGGATAATCTCTTCAGAGAGGCCATGGAGGGAAACCAGGAGTGTCTC
ACTGAACTTGTGAAGAAGCCACAGCCAAGCCCTGGGGCCCAGTCATCCTGCAGCAGTGACCACTCCCCGGCAGGG
AGTGCAGCCAATACAGACAGTGGTGTGGAAATGACTGGCAATGCAGGGGGCAGCACTGAAGACCTCTCCAGCTTG
GACGAGGGACCTTGCATTGCTGGCACTGGTCTGTCCACTCTTCGCCGCCTTGAGAACCTCAGGCTGGACCAGCTA
CATCAACTCCGGCCAATAGGGACCCGGGGGTCTCAAACTGCCCAGCTTGTCCCACACCGGTGAGACCTGGGTGTGG
GAGTGCTTGCCAAAGTTGCGGACTGCCAACCACAGCTGGTACTGTCCAGGGCCTGCCCTGAGCACACTGACATCT
GCCCGTGCTGAAGATGCAAAGCCTGTTGCAGCAGGAGCTGCTGGCACCAGCCCTGATCATTCCCTCCTTTTGCAA
TGCCTCAGCTCTTTTATTTCCATCTGTTGTTCTATGATAGGCTGCTCTCCCCACGTTTCTGATAATTATGGGGTA
AAACCGGGAAGGCTGCAGACATCAGAGGAGAGCTCTATATTCTCCTACTTTAAAATGTTGCCTAAGACAAGCAAC
AAACTCAATGTACTTTGCCCTCTGAGAGAGCTCAGAATCCTTGTCCTCAGGAATCATGCGATCAATGCAAAGGAG
CTCGCCATGATCGCCACCGGCGGCCTGCTAAGGATTTCCGCCAGAAAGCAGGATCCACTCCGCCCCCCAAGCCAG
ATACCCAAGCGCAAGCGGAAAGCCAAGAAGAGGCGCAAGAACGACGTGGTGGTGGTTAATGTGTTTGGAGCACTA
AATACGACTTGA
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FIGURE 5031

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AGAGCTTCTTTGAAGGGCAGTCTGCACCATGGGACTCGGCTAAGAAAGATGAGAACAGAATGAAGAACAGATACG
GGAATATCATTGCATACGATCATTCCCGAGTGAGGCTGCAGACAATAGAAGGAGACACAAACTCAGACTATATCA
ATGGCAATTATATCGATGGTTATCATCGACCCAATCATTACATTGCTACCCAAGGGCCAATGCAGGAAACCATCT
ATGACTTCTGGAGGATGGTGTGTGGCACGAAAACACTGCAAGTATCATCATGGTGACCAATCTTGTGGAAGTGGGAA
GGGTCAAATGCTGCAAATACTGGCCAGATGACACAGAGATATATAAAGACATTAAAGTTACCCTAATAGAAACAG
AACTACTGGCAGAATATGTGATAAGAACATTTGCTGTTGAAAAGAGAGGTGTGCATGAAATCCGAGAGATCAGAC
AGTTTCACTTCACTGGCTGGCCGGATCATGGGGTCCCCTACCATGCCACCGGCCTGCTGGGATTCGTGCGGCAAG
TCAAGTCCAAGAGCCCGCCCAGTGCAGGCCCACTGGTGGTGCACTGCAGTGCTGGTGCAGGGAGGACTGGCTGTT
TCATCGTCATTGATATCATGTTGGACATGGCCGAAAGGGAAGGGGTCGTAGACATCTACAACTGCGTCAGGGAGC
TGCGGTCACGGAGGGTGAACATGGTGCAAACAGAGGAGCAGTATGTGTTTATCCACGATGCGATCCTGGAAGCCT
GTCTTTGTGGGGACACCTCTGTGCCTGCTTCCCAAGTTAGGTCTCTGTATTATGACATGAACAAACTGGATCCAC
AGACAAACTCAAGCCAGATTAAAGAGGAATTCCGGACGCTAAACATGGTGACACCAACGCTGCGAGTAGAGGACT
GCAGCATCGCACTGTTGCCCCGGAACCATGAGAAAAACCGGTGCATGGACATCCTGCCCCCAGACCGCTGCCTGC
CCTTCCTCATCACCATCGATGGGGAGAGCAGCAACTACATCAATGCTGCCCTCATGGACAGCTATAAACAGCCTT
CAGCTTTTATAGTCACCCAGCATCCTTTGCCAAACACAGTGAAAGACTTTTGGAGACTGGTCCTGGATTATCACT
GCACATCCGTAGTTATGCTAAATGATGTGGATCCTGCCCAGTTGTGTCCACAGTACTGGCCAGAAAACGGAGTAC
ACAGACACGGCCCCATCCAGGTGGAATTTGTCTCTGCTGACCTGGAAGAGGACATCATCAGCAGGATATTCCGCA
TTTACAATGCCGCCAGACCCCAAGATGGATATCGGATGGTGCAGCAATTCCAGTTCCTGGGCTGGCCGATGTACA
GGGACACACCAGTGTCTAAGCGCTCCTTCTTGAAGCTCATTCGCCAGGTGGACAAGTGGCAAGAGGAGTACAATG
GCGGGGAAGGCCGCACGGTTGTGCACTGCTTGAACGGGGGAGGCCGCAGTGGGACGTTCTGCGCCATCAGCATCG
TATGTGAGATGCTCCGGCACCAGAGAACCGTGGATGTCTTTCACGCTGTGAAGACACTGAGGAACAACAAGCCCA
ACATGGTCGACCTCCTGGATCAGTACAAGTTCTGCTACGAGGTGGCCCTGGAATACTTGAATTCTGGCTGATGGT
GTAAACAGCTCTGCAAACAATCCCTTTCATACCACAAAGCCAAGACGTTCCATGGTATTTGTGCAAAAGAGATGA
AGACTTCTCAATATGCTTATTTTGCTTTGCATAATTGGCTCTTTTTAAGAGCCCAAGAAAGTGTTTCTAAAATTG
CTTGCACTGCCCAATCCCAGTAATGCTGCTGCCTGACAGAAACACACACACAGCCACAGTTGCCAAATCCCGTAC
TCCTTGCCACCGGCTTCCTAGAGCAGCGTAGACAGCTGGTAAACTGAAGAGCACAACTATATTCTTATGAAGGAA
TTTGTACCTTTGGGGTATTATTTTGTGGCCCGTGACCCTCGTTATTGTTACAGCTGAGTGTATGTTTTTGTTCTG
TGGAGAATGCTATCTGGCATTATGGTAATATATTATTTTAGGTAATATTTGTACTTTAACATGTTGCATAATATA
TGCTTATGTAGCTTTCCAGGACTAACAGATAAATGTGTAATGAACAAAGATATGTTGTATGAGTCGTCGTTTCTG
TCAGATTTGTATTGTTTCCAAGGGAAAAGCTTGGGGGAGGACTCAGTTCACAAAATGCAAAACTCAACGATCAGA
TTCACGGACCCAGAGCTTTTCCATGTGTTTATATTGTAAATATTTTTGATTTCATCAAATTATTTATTCATTAAA
AGAAATTTTTGTG
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FIGURE 5032

CGGAGGGTGGGGAGCGGAAAGCAGGACGCACGGCTCCCGCGGCCCGCTGGCTGCCCTTCCCGCCAGCGCAGGTGT
GGGACGGGCGGCGGACTAGGCACAGAGCTGCGGGAGCAGGCACAGGGAGTGTGGAGCCTGGCGGCGGGACGGCGG
GATCCGGTGGGAGCCGGAGTCCCGCCGAGGGGGGCTGGAGGTGGAGGGGCCCGGCGAGGCCGCG**ATG**AAGCCGAG
CGGCGAGGACCAGGCGGCGCTGGCGGCCGGCCCCTGGGAGGAGTGCTTCCAGGCGGCCGTGCAGCTGGCGCTGCG
GGCAGGACAGATCATCAGAAAAGCCCTTACTGAGGAAAAACGTGTCTCAACAAAAACATCAGCTGCAGATCTTGT
GACAGAAACAGATCACCTTGTGGAAGATTTAATTATTTCTGAGTTGCGAGAGAGGTTTCCTTCACACAGGTTCAT
TGCAGAAGAGGCCGCGGCTTCTGGGGCCAAGTGTGTGCTCACCCACAGCCCGACGTGGATCATCGACCCCATCGA
CGGCACCTGCAATTTTGTGCACAGATTCCCGACTGTGGCGGTTAGCATTGGATTTGCTGTTCGACAAGAGCTTGA
ATTCGGAGTGATTTACCACTGCACAGAGGAGCGGCTGTACACGGGCCGGCGGGGTCGGGGCGCCTTCTGCAATGG
CCAGCGGCTCCGGGTCTCCGGGGAGACAGATCTCTCAAAGGCCTTGGTTCTGACAGAAATTGGCCCCAAACGTGA
CCCTGCGACCCTGAAGCTGTTCCTGAGTAACATGGAGCGGCTGCTGCATGCCAAGGCGCATGGGGTCCGAGTGAT
TGGAAGCTCCACATTGGCACTCTGCCACCTGGCCTCAGGGGCCGCGGATGCCTATTACCAGTTTGGCCTGCACTG
CTGGGATCTGGCGGCTGCCACAGTCATCATCAGAGAAGCAGGCGGCATCGTGATAGACACTTCGGGTGGACCCCT
CGACCTCATGGCTTGCAGAGTGGTTGCGGCCAGCACCCGGGAGATGGCGATGCTCATAGCTCAGGCCTTACAGAC
GATTAACTATGGGCGGGATGATGAGAAG**TGA**CTGCGGCTGAGGCAAAGCTGCTCCCAAGGCCTCCCTGGGCTGCT
GTGGGCTCCTGGGGAGGTGGCCCTCGTGGCCCACGCTCCATGCCAGTGGCTCACGCTCTGCTCCTGGCTACCCCA
GAGGGAGTTGTCACGCTACAGTGAGTGGCTGGCCTTTTAAATCGACGTCTCTCTCACCAGGATTTGGTGTTTAGC
TGTTTCTCTCTTTAATCTCACGTAGCCTTTTTCAGGTTAGTACGTGTTCTTCTGTCAGGGCCAAAACTCAAATCT
CCTGTGAAATACGTATTGATAATCCAATCTTGATTTTTCCCCCAGAATATAAATCTCAGGTAATAAGGCTTTAG
AACTGCTGATAAAGCGGATCGTTCTCAGGCCCTCCCCCCGGAGTACTTCAGAATGCAATAAATCAAAATAATGGC

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FIGURE 5033

MKPSGEDQAALAAGPWEECFQAAVQLALRAGQIIRKALTEEKRVSTKTSAADLVTETDHLVEDLIISELRERFPS
HRFIAEEAAASGAKCVLTHSPTWIIDPIDGTCNFVHRFPTVAVSIGFAVRQELEFGVIYHCTEERLYTGRRGRGA
FCNGQRLRVSGETDLSKALVLTEIGPKRDPATLKLFLSNMERLLHAKAHGVRVIGSSTLALCHLASGAADAYYQF
GLHCWDLAAATVIIREAGGIVIDTSGGPLDLMACRVVAASTREMAMLIAQALQTINYGRDDEK

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FIGURE 5034A

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GGCACGATTCTGGGTACAGGTGATGAGGGATTTGAGGAATGGGGTAAAACTTAAGAAGGTCCAAGAGCGGCAGTA
CAACCCTTTGCCCATTGAATATCAGCTCACCCCTTATGAGATGTTAATGGATGACATTCGCTGCAAAAGATACAC
CTTGCGAAAAGTGATGGTGAATGGTGATATTCCCCCTCGGTTAAAAAAGAGTGCTCATGAAATCATCCTCGACTT
CATCAGATCCAGACCTCCTTTAAATCCAGTCTCAGCCAGAAAACTGAAACCAACTCCACCACGGCCACGGAGCCT
CCATGAAAGAATATTAGAAGAAATTAAAGCAGAAAGAAAGCTGCGGCCTGTATCACCAGAGGAGATTAGACGTAG
CAGATTAGATGTGACTACCCCTGAATCTACAAAGAATCTTGTGGAGTCATCTATGGTGAATGGAGGTTTGACATC
ACAAACAAAAGAAAACGGGTTAAGTACCTCACAGCAGGTGCCTGCACAGCGGAAGAAGCTCCTCAGAGCCCCAAC
TCTGGCCGAACTGGACAGCTCTGAGTCTGAGGAAGAAACGCTGCACAAGTCGACCAGCAGCAGCAGCGTGTCTCC
CTCTTTCCCTGAAGAGCCAGTCCTGGAGGCCGTGTCCACAAGGAAGAAGCCTCCAAAATTCCTGCCCATATCATC
AACACCCCAGCCAGAGAGACGGCAGCCACCCCAGAGACGACATTCCATTGAAAAGGAAACGCCTACTAACGTGAG
GCAGTTCCTGCCGCCTTCCAGGCAGAGTTCCCGCTCTCTTGAGGAATTCTGCTACCCAGTGGAATGCCTCGCTCT
TACTGTGGAAGAAGTGATGCATATTCGCCAGGTCCTGGTGAAGGCAGAGCTGGAAAAATACCAACAGTATAAAGA
CATCTACACCGCCTTGAAAAAAGGAAAGCTCTGCTTTTGTTGCCGAACCAGGAGGTTTTCCTTCTTCACTTGGTC
TTATACCTGTCAGTTCTGTAAGAGGCCGGTGTGCTCACAGTGTTGCAAAAAGATGCGGCTGCCCTCCAAACCATA
CTCCACTCTTCCTATCTTTTCATTGGGACCTTCTGCTCTGCAAAGAGGGGAAAGTAGTATGAGGTCAGAAAAACC
CTCCACTGCCCATCATCGGCCACTTCGGAGCATTGCCAGGTTCTCCTCAAAATCTAAGTCTATGGACAAATCAGA
TGAAGAACTCCAGTTTCCCAAAGAGTTGATGGAGGACTGGAGCACCATGGAGGTGTGTGTGGACTGCAAGAAGTT
CATTTCGGAAATCATCAGTTCAAGCCGGCGCAGTCTGGTGTTGGCCAACAAAAGGGCCCGATTGAAAAGGAAAC
GCAGTCTTTCTACATGTCCTCGCCAGGCCCCTCGGAGTACTGCCCTTCAGAGAGGACGATCAGTGAGATCTGAGC
CTCGTGCCTTTCAGCTGCTTTTGTGCTACGAGTCAGCGTCCGTGCGCGAGGACACTGAGCCGGGCTGGCTCTCCT
TTCTGTGGTTTTATTTAATGGGCTTGAATTTGCATTAGATCAGATTTTTGCCGCATCACATTGTTCCACAGACTG
AATGCTGTGTTCGTATCGATTGATGAAACGTGACAGGTCCGCCAATTGCTCGTTTGCACTGAGAGAGGACAACAG
TTTGAAACTTACTTTTGTGTGTGTGTGGCTTTGGAAGCCAGTAGCTACTTCCTTAGTTCAGTTCTTTACTGTTCC
TCGAATAATCTCCTGACTAAGGCAAAAAAAAAAGCTTCTCCTACGAGAATCAGTCTAACAGAGATGCCGATGTC
AGCACAGCCCTAAGCAGTAAGTCATATTGGCATTTCCACGTGACTGTGTTTCTATCCCGTGTACAGAGAGATCCA
GAGCCCTACACTCCACGACCTGGGGGCTCACAGCACAGAACCTAGAAGCACCTGCTGACACTCTTCAACTGATTT
TTAAATGTTGTTGCTTGGAGATAAAAATTACATAAGGGACTTTTTGCCTGCATTCTAGTGCAAAACATCTGAAGA
GCTGTACACCCACAAGGGTGACTATTTCCCCTGAGTGGCCGTGTTGTCCCAGTGCCCTGGTTCAGTGTCTCCTGA
GTGGATGACAGGTCTTCATTCTCTATCTTGAATGTATTATGGTTACTAATAGTTTTATAATGGAGGTCTAAGAAT
TAAAGTTGTGTGGGAGTTTCAGGACAAAGGAAGGCTAAAAGTTTGTCAAGACGTTGAGCGTATTTTGGTTACCTA
TGAGAAGGGTTGTGACAGTGTACAGTGGCAGCTGTTGGCCACGCTGCAGAAATGAGCTGGAGCTCATGGGTTTTC
AGCTACATTTTTCATAACTTTGTAGTACATCCATCTTGAGTAAATTAAGCCACAATTTGGTACCTAGGGTCTCAA
ACTAAAATTTATTTTTATAAATGAATTTTAAAAGAAAAAATATCTACTTCTTTTAAAGTTAGAAGAAAATTAACC
TGCTGACAGGCAACATTTTTGGGGTGCTTTCTGCACTAGTTTTCCTTGTAAATGATTTGAGTGAGTAGGTTTGGT
TTCTGACGAAAGTAGACTGGAGGGTAGCATTGTATGCCTCAAATGTCTCAGTGTGTTTGGCTCATACGTGGGCTA
TACTGTATTATTTTGGTATGCTTACAAATGACTAACCAATCAAATTGTCATTAATGTTTGGAAAATCTGTTAATG
CACATGCACAATAATTTCCTGAAAGCCATAGGACATGTCTGTAGTCAGCACCACGATAGCACCGTTTCATGAAAG
GCATGGCGGCTGCATTTCATACCACATCAAAATACAGTAACATTTCTATACTAAATTAACAGTAATACCTCAAAA
CTGCTCCGGTAGTAGTTTTTAATGGATTGAAATTTACAGTTTAGTAAAAGGCTTAAAATTACTTATACTTATGAA
ATAAACTTTACCAGTTGACTAAAATAATGCATGTTAACAGTTGGTCTGTATTTGCATGTAAAAGTGGGCCACCAG
AGAACCCTTATTGATTACTTAAGTGTTTACATTATTTTAAAGACTCCTGTTTAAGAGCTTTCAGAATTGTACTGG
GTGAATCTCATTTATAAAACTTCCTAAGAGACTATCTGAACTCTATACTCCAGACAGTTAGGTGGGAGTATAAAT
CTACCCCTTTTGATGACCCCAGGCTTGAGTTTTTAAAATGACTACCCAGAAGGGCACAAGGGGGAAGGAAATGGT
ATTTGTATATGTATATAAATATGCACCTAGGAGAATGTGCTTTTTAAAATAATGACTACTGTTTTTATTAAAACA
TAAGAAACTACACCCCCAAAATAAGACTTTCATTCACATTCACAAAGCAAACATCTAGTACATGTCTTTCACTTC
ACTTTATGATAGTGTATTGGATGATTTGGGCATTACGATCACCTCTTACCACAGCACAGAACATACATTCTTCAA
CAGCATTAACGGAGTTTGCCAAGTGCATTAAAGAGGTCACGTGGAGGGTACGTTCATATGAAACAATCTGCAGAA
AGTGGGGTAAGAAAGGGCACATGGCACAGTTAAAGTTGTAGAAATCAAATTACTATCATTTTTTGTTGCCAAAAC
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FIGURE 5034B

AAAGTCTTACATTTAACCCCCCTTTCTACCACCCCCCTCCACACTTCACGTCAGCTACATAGTTTCCACAGGGTA
ATTCACTAAGAGCTTGTGGAGCTTGGTTTTAAAATCCTTAGCCTGGTCTGACTTTAGGCATAGCTTCCAGTTCTT
CCTTCCGTGTCCTGGTTTCTTGTTCAGTTTTACTTCTAATCCAACAACAAAAGAAATGTCTGGCTGGTCTCAGCT
AGAGTCTGATGTGTCTTAGAGCATGTGTGCGTATCTGAACCATCATCCCTGCTCTCATCTCAGCTCCCTCCAGGC
CTGAGCACCGGTTCCTTTTGTCCCATACGTCATGAAGTCACACTATTGGGAAACCTGTGCTTCCCTCTCCATGGC
TTAACTCCCTGTCAGTGTCGGAGTGTATAAGAATGCTTGTAAATACTGTAATATATTTATTAATATTTGAAAGGC
ATTCATTCAGTGGACAGTGGGAATTAACTCTCCCAAGGCAAGTGAAAATGAATGATTGACGTACGTTGATTTAAC
AATCTTACTAGATTTTAATTCTTAAGGATTTCAAATGAAACCAGAAGGTGGTTATGTAAGAGGCTTAAAATGATC
TTATGTTTAAAGAGATTCTGTTATTAGCACCATGAACTCGTACTATGAAATTTTTAAGCCTTTTATTTTTCTAAC
TATATTACTGTAGGACTGGATATTAGGTGTCATATAGGAAACACAAAAGTTTATTGCTGTTTGCTAAAGCAAAAT
AGCAGAAAATTTTGTATATGCAAAACTGTTGAAGGACCATAGAGAAATGTGTACTACTGACGGGGCTTTTACTAG
GCTTCCTGCGTGTGTAAAAGTCGAGGTATTGCTGGCATTCAGGGTGACATGATGGTACTAAATGTTTTCCATTAA
AGTCTTCTATTTTAAAATTTAGAGAAAAATAAAATGGCTTTCCATCAG

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FIGURE 5035

MRDLRNGVKLKKVQERQYNPLPIEYQLTPYEMLMDDIRCKRYTLRKVMVNGDIPPRLKKSAHEIILDFIRSRPPL
NPVSARKLKPTPPRPRSLHERILEEIKAERKLRPVSPEEIRRSRLAMRPLSMSYSFDLSDVTTPESTKNLVESSM
VNGGLTSQTKENGLSTSQQVPAQRKKLLRAPTLAELDSSESEEETLHKSTSSSSVSPSFPEEPVLEAVSTRKKPP
KFLPISSTPQPERRQPPQRRHSIEKETPTNVRQFLPPSRQSSRSLEEFCYPVECLALTVEEVMHIRQVLVKAELE
KYQQYKDIYTALKKGKLCFCCRTRRFSFFTWSYTCQFCKRPVCSQCCKKMRLPSKPYSTLPIFSLGPSALQRGES
SMRSEKPSTAHHRPLRSIARFSSKSKSMDKSDEELQFPKELMEDWSTMEVCVDCKKFISEIISSSRRSLVLANKR
ARLKRKTQSFYMSSPGPSEYCPSERTISEI

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FIGURE 5036

TTCTTTCTTGCCGTGCCGATAGCGCTCACGCAAGCATGGTTAACGTCCCTAAAACCCACCAGACTTTCTGTAAGA
AGTGTGGCAAGCACCAACCCCACAAAGTGACACAGTACAAGAAGGGCAAGGATTCTCTGTATGCCCAGGGAAAGT
GGCGTTATAACAGGAAGCAGAGTGGCTATGGTGGGCAGACTAAGCCGATTTTCCAGAAAAAGGCTAAAACTACAA
AGAATACTGTGCTAAGGCTTGAGTGCGTTGAGCCCAACTGCAGATCCAAGAGAATGCTGGCTATTAAAAGATGCA
AGCATTTTGAACTGGGAGGAGATAAGAAGAGAAAGGGCCAAGTGATCCCGTTCTAAGTGTCATCTTTTATTATGA
AGACAATAAAA

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FIGURE 5037

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GGCACGAGGCAGACCATGAGGTTTAACTGAGTGAACACCGCTGTTCCGGGGCTCTGCCTCTCGCTGAACGCTCCT
GCTGGGCTGGGGCCTCCCGAGTAGCTGGAAGTACAGATAATCACAGCTGGCTTATCAATATTGCTGTTTGATGCG
ATCCTGACCAGTGCAACCACGGGATGCCTCCTGCTCGGTGCGCTTGGAGAGGCCTTGCTGGTTTTCTCAGAGCGG
AAGAGCTCCTGAACAAGACGGTCAAGAGAAAGACTCACAGGCTGCTGCGGGAGAACAGCTTGTACACCTGTGTAC
GAGCCCCTGGTCTCATAGCTCCCTGTTGGATGTGTCAGAAAGAGGAATGCAAGGACAGTGAGGCCAGGTGGGCAG
TGCCATCACCCTCACCCAAGTGAATGTGGTGGTGGCTGATGAGGCCGAGGCCCTGGTGCTTCAAGGAGCACCCTT
TCTGGGGGTCTGCAGGTCACTGCAGAGGAGCGGTCTGTTACATCTTCCCATTTGGAGAACCTCTCTCAACCGTGC
TGTAGCTGGTTCTGCAGAAACAGGAAGTACAGGATTTCATGGGCTGGCTCTGCTCGCCTCGACTGAGCTTCACAC
CTCTGGATGCCACATGCTCTCTCCCAAACACTGCTTTCAGTGCAAGGTAGTGGGCCTAAGGGGTTTTGGTTGTCT
TTTTTTTTTTTCATTTTTAAAATTTTAAATTTTTATTTATTATTATTTTTAGAGACAAGGCCTCGCTCTATCGC
CTAGGCTGAAGCACAGTGGTGCGATCACAGCTCGCTGCAGCCTTGACCTCCTAGGATCAAGCCATCCTCCTGCCT
CAGCATCCACAGTAGCTGATGTGCACCACCAGACCCGTCTCATTTTTTCTATTTTTATTATTTTAGAGATGGGGA
TCTCACTGTGTTGGCCAGGCTGGTCTCAAACTCCTGGGCTCAAGCAATCCTCCCACCTTGGCCTCAAAGTATTGA
GATTACAGGCATGAGCCACTGCACCCGGCCTTTCTCATTTTTATTTTTAAATTGACAGACGTAACAGTGCGCATT
TATCACGCACAACACAATGCTTTGGGAATGGTTAAATCTAGCTCACAAATGCATTACCTCACACGGTTGTCATTT
TTGTGGTGAGGCTTGGTTGTATGTTTTGTTTCATTCATGTTTTTACATCCTTGGAGTCTCCTCTGGGTCCGTCCT
TTCTTTGCTGTCATGCTGGCTTGCCTAAGGCCCACCGCCACCTGCGTACGAGCATTTTAAACTCTAGAGTGAGTG
ACAGCCTTTTTATGGTTGGTGTTACTATTTATTTCCTGCCTCTAAACTTCTCGTGGTCCTTATAAACTTGTCAGG
ATGTGTGTTGCGTTGAATTCTGCATGTCCTTTTTTTGCCCACCCTCAGGTTAAGCTGGTACTAACTTATCCCCAG
AGGAAACAGGGTTTATGAGCACTGACAGATGTCTTCCCTGGGCAAAAAAAAAAAAAAAAAATAGTATATGTATACAC
ACACACATACACATTTATATTTATATTTCTTAAAGCTTTTAATCCCTTTCATTCCCTGATATCTCAGAGATTTCA
AATCATTGAACACTGAAGTATATTTTTCAGGCCAGATGAAAAATTGTATTAAAACCCTATTCCTGGTCAGGCGCA
GTGGCTCACGCCTATAATCCCAGCACTTTGGGAGGCCGAAGTAAGCAGATCACCTGAGGTCGGGAGTTCAAGACA
AACCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAACTACAAAAAAATTAGCCTGATGTGGTGTTGTGTGCCT
GTAGTCCCAGCTACTTAGGAGGCTGAGGTAGGAGAATTGCTTGAACCTGGGAGGCGGAGGTTGCAGTGAGCCAAA
ATTACGCCACTGCACTCCAGCCTGGGCAACAGAGCGAGACAGTCTCAAAAACAACAACAACAACAAAAACCCTAT
TCCTTGCCTTTGTAGGAGTCAAAATAAATGAACTTCTTTTTTCTTTTTTTTTATTATTATACTTTAAGTTCTGGGG
TACACGTGCAGAATGTGCAGGTTTGTTACATAGGTATGCACGTGCCATGGTGGTTTGCTGCACCCATCAACCTGT
CACCTACATTAGGTATTTCCCCTAATGTTATCCCTCCCCTAGCCCTCCATCCCCTGACAGGCCCTGGTGTGTGAT
GTTCCCCTCCCTATGTCCATGTGTTCTCATTGCTCCAAAATAAATGAATTTACACAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAA
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FIGURE 5038

MPPARCAWRGLAGFLRAEELLNKTVKRKTHRLLRENSLYTCVRAPGLIAPCWMCQKEECKDSEARWAVPSPSPK

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FIGURE 5039

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GAATTCCCCCCCCCCCCCCCCAGTGCTCCGCGCGCTCTTGACGTCCGGAGCCCCTGGAGTAGGCGCTTCCGGCCATT
CATACTGCAGTCGGTCAGTGTTCGGTTGAAGGATTCTGTGTGCTGTCGGACCCAGAGGGTGACGGCGCCGCTAGG
ATGAAGCTCGTGAGATTTTTGATGAAATTGAGTCATGAAACTGTAACCATTGAATTGAAGAACGGAACACAGGTC
CATGGAACAATCACAGGTGTGGATGTCAGCATGAATACACATCTTAAAGCTGTGAAAATGACCCTGAAGAACAGA
GAACCTGTACAGCTGGAAACGCTGAGTATTCGAGGAAATAACATTCGGTATTTTATTCTACCAGACAGTTTACCT
CTGGATACACTACTTGTGGATGTTGAACCTAAGGTGAAATCTAAGAAAAGGGAAGCTGTTGCAGGAAGAGGCAGA
GGAAGAGGAAGAGGAAGAGGACGTGGCCGTGGCAGAGGAAGAGGGGGTCCTAGGCGATAATGTCTCTCAAGATTT
CAAAGTCATATGAGATTTGGGATATTTTTTGTACAGGTTGTGTTTGTTTATGTCAGTTTTTAATAAACATAAATG
TGGGACAGAGCTGTCTATTTAGTATATCAAAGTTTTAGTAGTTTCCTCCACATTCACGAAATTACCACAGTGAGA
GCTAAGCATTCTACTGGGCAGTTTCATTTTTAGTTGATCAGGTTTTAAGTTTTTGAACTAAAATTTTTCTTTTT
CTTTTTATGATGAATAAGGTTAAAATAAAAGCCTTAGACAAATTAAATTTGGCAGAGTTTAATTGAGCAAAGGAC
AATTCACAAATCAGGTAGCCCCTGAACCATAATAGGCTCAGAGGCTTCAGCCCAGCTGCATAGTTGAAGATTTAT
GGACAGAAGGAAAGTGATGTATGGAAAATGGAAGTGAGATACAGCAACAGCCGGATTAGTTACAGTTCAGCGTTT
GCCTTATTTGAATATGGTTTGAACAGTTCGCTGTCTTTGGTTGGCTGAAACTTAGTGATTGCCACAAGAGTAGGG
TACCGTCTGTTTACACGTCCAGTTAGGCTACAGTTCTATGTACTGAGAAACCTTTAAGCTGAACTTGAGATATGT
AAAGAGACTTTAGGCTAAACTTAACAATATATATAGGAATATATCCCTTCTACTTCACATGCACTGAATATGCAT
TTTATTGCTTTACTCTTCATTCTGTGGCACCTACCCACAGGGGAAGTAAGAAGTTTGTTTTGGTATTTCGGAAAC
TAAAGTCCTTATGGGATGGGGTCTAGAATTGATTCTCCTTTCCTGAGTTTTACTCCACGGAGTCTTAGGTACCTG
GTAAAAAGTTGTCTTCTAAATTAAGGGTCATTGCTTTGTTGTCTAGCTGCTAATGTCTTACTTTTGTTTCTTTTG
CTTTTTAATCAGTTCTTAATAGGATATAGTTTTATGTTTTCCAAGTTATAACTTGGAGTTAATGGTCACTAGATT
ATCAGTTATGAGCAGTGTTAAAATCTCCTATTAATGTGTAATGTACCTGTCAGTGCCTCCTTTATTAAGGGGTTC
TTTGAGAATAAAAGAGAAAAGACCTACTTTATTTGACAGCAAAAAAAAAAAGGAATTC
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FIGURE 5040A

<u>ATG</u>GGATGGCTGTGGATCTTTGGGGCAGCCCTGGGGCAGTGTCTGGGCTACAGTTCACAGCAGCAAAGGGTGCCA
TTTCTTCAGCCTCCCGGTCAAAGTCAACTGCAAGCGAGTTATGTGGAGTTTAGACCCAGCCAGGGTTGTAGCCCT
GGATACTATCGGGATCATAAAGGCTTGTATACCGGACGGTGTGTTCCCTGCAATTGCAACGGACATTCAAATCAA
TGCCAGGATGGCTCAGGCATATGTGTTAACTGTCAGCACAACACCGCGGGAGAGCACTGTGAACGCTGCCAGGAG
GGCTACTATGGCAACGCCGTCCACGGATCCTGCAGGGCCTGCCCATGTCCTCACACTAACAGCTTTGCCACTGGC
TGTGTGGTGAATGGGGGAGACGTGCGGTGCTCCTGCAAAGCTGGGTACACAGGAACACAGTGTGAAAGGTGTGCA
CCGGGATATTTCGGGAATCCCCAGAAATTCGGAGGTAGCTGCCAACCATGCAGTTGTAACAGCAATGGCCAGCTG
GGCAGCTGTCATCCCCTGACTGGAGACTGCATAAACCAAGAACCCAAAGATAGCAGCCCTGCAGAAGAATGTGAT
GATTGCGACAGCTGTGTGATGACCCTCCTGAACGACCTGGCCACCATGGGCGAGCAGCTCCGCCTGGTCAAGTCT
CAGCTGCAGGGCCTGAGTGCCAGCGCAGGGCTTCTGGAGCAGATGAGGCACATGGAGACCCAGGCCAAGGACCTG
AGGAATCAGTTGCTCAACTACCGTTCTGCCATTTCAAATCATGGATCAAAAATAGAAGGCCTGGAAAGAGAACTG
ACTGATTTGAATCAAGAATTTGAGACTTTGCAAGAAAAGGCTCAAGTAAATTCCAGAAAAGCACAAACATTAAAC
AACAATGTTAATCGGGCAACACAAAGCGCAAAAGAACTGGATGTGAAGATTAAAAATGTCATCCGGAATGTGCAC
ATTCTTTTAAAGCAGATCTCTGGGACAGATGGAGAGGGAAACAACGTGCCTTCAGGTGACTTTTCCAGAGAGTGG
GCTGAAGCCCAGCGCATGATGAGGGAACTGCGGAACAGGAACTTTGGAAAGCACCTCAGAGAAGCAGAAGCTGAT
AAAAGGGAGTCGCAGCTCTTGCTGAACCGGATAAGGACCTGGCAGAAAACCCACCAGGGGGAGAACAATGGGCTT
GCTAACAGTATCCGGGATTCTTTAAATGAATACGAAGCCAAACTCAGTGACCTTCGTGCTCGGCTGCAGGAGGCA
GCTGCCCAAGCCAAGCAGGCAAATGGCTTGAACCAAGAAAACGAGAGAGCTTTGGGAGCCATTCAGAGACAAGTG
AAAGAAATAAATTCCCTGCAGAGTGATTTCACCAAGTATCTAACCACTGCAGACTCATCTTTGTTGCAAACCAAC
ATTGCGCTGCAGCTGATGGAGAAAAGCCAGAAGGAATATGAAAAATTAGCTGCCAGTTTAAATGAAGCAAGACAA
GAACTAAGTGACAAAGTAAGAGAACTTTCCAGATCTGCTGGCAAAACATCCCTTGTGGAGGAGGCAGAAAAGCAC
GCGCGGTCCTTACAAGAGCTGGCAAAGCAGCTGGAAGAGATCAAGAGAAACGCCAGCGGGGATGAGCTGGTGCGC
TGTGCTGTGGATGCCGCCACCGCCTACGAGAACATCCTCAATGCCATCAAAGCGGCCGAGGACGCAGCCAACAGG
GCTGCCAGTGCATCTGAATCTGCCCTCCAGCACGTGATAAAGGAAGATCTGCCAAGAAAAGCTAAAACCCTGAGT
TCCAACAGTGATAAACTGTTAAATGAAGCCAAGATGACACAAAAGAAGCTAAAGCAAGAAGTCAGTCCAGCTCTC
AACAACCTACAGCAAACCCTGAATATTGTGACAGTTCAGAAAGAAGTGATAGACACCAATCTCACAACTCTCCGA
GATGGTCTTCATGGGATACAGAGAGGTGATATTGATGCTATGATCAGTAGTGCAAAGAGCATGGTCAGAAAGGCC
AACGACATCACAGATGAGGTTCTGGATGGGCTCAACCCCATCCAGACAGATGTGGAAAGAATTAAGGACACCTAT
GGGAGGACACAGAACGAAGACTTCAAAAAGGCTCTGACTGATGCAGATAACTCGGTGAATAAGTTAACCAACAAA
CTACCTGATCTTTGGCGCAAGATTGAAAGTATCAACCAACAGCTGTTGCCCTTGGGAAACATCTCTGACAACATG
GACAGAATACGAGAACTAATTCAGCAGGCCAGAGATGCTGCCAGTAAGGTTGCTGTCCCCATGAGGTTCAATGGT
AAATCTGGAGTCGAAGTCCGACTGCCAAATGACCTGGAAGATTTGAAAGGATATACATCTCTGTCCTTGTTCTC
CAAAGGCCCAACTCAAGAGAAAATGGGGGTACTGAGAATATGTTTGTGATGTACCTTGGAAATAAAGATGCCTCC
CGGGACTACATCGGCATGGCAGTTGTGGATGGCCAGCTCACCTGTGTCTACAACCTGGGGGACCGTGAGGCTGAA
CTCCAAGTGGACCAGATCTTGACCAAGAGTGAGACTAAGGAGGCAGTTATGGATCGGGTGAAATTTCAGAGAATT
TATCAGTTTGCAAGGCTTAATTACACCAAAGGAGCCACATCCAGTAAACCAGAAACACCCGGAGTCTATGACATG
GATGGTAGAAATAGCAATACACTCCTTAATTTGGATCCTGAAAATGTTGTATTTTATGTTGGAGGTTACCCACCT
GATTTTAAACTTCCCAGTCGACTAAGTTTCCCTCCATACAAAGGTTGTATTGAATTAGATGACCTCAATGAAAAT
GTTCTGAGCTTGTACAACTTCAAAAAAACATTCAATCTCAACACAACTGAAGTGGAGCCTTGTAGAAGGAGGAAG
GAAGAGTCAGACAAAAATTATTTTGAAGGTACGGGCTATGCTCGAGTTCCAACTCAACCACATGCTCCCATCCCA
ACCTTTGGACAGACAATTCAGACCACCGTGGATAGAGGCTTGCTGTTCTTTGCAGAAAACGGGGATCGCTTCATA
TCTCTAAATATAGAAGATGGCAAGCTCATGGTGAGATACAAACTGAATTCAGAGCTACCAAAAGAGAGAGGAGTT
GGAGACGCCATAAACAACGGCAGAGACCATTCGATTCAGATCAAAATTGGAAAACTCCAAAAGCGTATGTGGATA
AATGTGGACGTTCAAAACACTATAATTGATGGTGAAGTATTTGATTTCAGCACATATTATCTGGGAGGAATTCCA
ATTGCAATCAGGGAAAGATTTAACATTTCTACGCCTGCTTTCCGAGGCTGCATGAAAAATTTGAAGAAAACCAGT
GGTGTCGTTAGATTGAATGATACTGTGGGAGTAACCAAAAAGTGCTCGGAAGACTGGAAGCTTGTGCGATCTGCC
TCATTCTCCAGAGGAGGACAATTGAGTTTCACTGATTTGGGCTTACCACCTACTGACCACCTCCAGGCCTCATTT
GGATTTCAGACCTTTCAACCCAGTGGCATATTATTAGATCATCAGACATGGACAAGGAACCTGCAGGTCACTCTG

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FIGURE 5040B

GAAGATGGTTACATTGAATTGAGCACCAGCGATAGCGGCGGCCCAATTTTTAAATCTCCACAGACGTATATGGAT
GGTTTACTGCATTATGTATCTGTAATAAGCGACAACTCTGGACTACGGCTTCTCATCGATGACCAGCTTCTGAGA
AATAGCAAAAGGCTAAAACACATTTCAAGTTCCCGGCAGTCTCTGCGTCTGGGCGGGAGCAATTTTGAGGGTTGT
ATTAGCAATGTTTTTGTCCAGAGGTTATCACTGAGTCCTGAAGTCCTAGATTTGACCAGTAACTCTCTCAAGAGA
GATGTGTCCCTGGGAGGCTGCAGTTAAACAAACCACCTTTTCTAATGTTGCTTAAAGGTTCTACCAGGTTTAAC
AAGACCAAGACTTTTCGTATCAACCAGCTGTTGCAGGACACACCAGTGGCCTCCCCAAGGAGCGTGAAGGTGTGG
CAAGATGCTTGCTCACCACTTCCCAAGACCCAGGCCAATCATGGAGCCCTCCAGTTTGGGGACATTCCCACCAGC
CACTTGCTATTCAAGCTTCCTCAGGAGCTGCTGAAACCCAGGTCACAGTTTGCTGTGGACATGCAGACAACATCC
TCCAGAGGACTGGTGTTTCACACGGGCACTAAGAACTCCTTTATGGCTCTTTATCTTTCAAAAGGACGTCTGGTC
TTTGCACTGGGGACAGATGGGAAAAAATTGAGGATCAAAAGCAAGGAGAAATGCAATGATGGGAAATGGCACACG
GTGGTGTTTGGCCATGATGGGGAAAAGGGGCGCTTGGTTGTGGATGGACTGAGGGCCCGGGAGGGAAGTTTGCCT
GGAAACTCCACCATCAGCATCAGAGCGCCAGTTTACCTGGGATCACCTCCATCAGGGAAACCAAAGAGCCTCCCC
ACAAACAGCTTTGTGGGATGCCTGAAGAACTTTCAGCTGGATTCAAAACCCTTGTATACCCCTTCTTCAAGCTTC
GGGGTGTCTTCCTGCTTGGGTGGTCCTTTGGAGAAAGGCATTTATTTCTCTGAAGAAGGAGGTCATGTCGTCTTG
GCTCACTCTGTATTGTTGGGGCCAGAATTTAAGCTTGTTTTCAGCATCCGCCCAAGAAGTCTCACTGGGATCCTA
ATACACATCGGAAGTCAGCCCGGGAAGCACTTATGTGTTTACCTGGAGGCAGGAAAGGTCACGGCCTCTATGGAC
AGTGGGGCAGGTGGGACCTCAACGTCGGTCACACCAAAGCAGTCTCTGTGTGATGGACAGTGGCACTCGGTGGCA
GTCACCATAAAACAACACATCCTGCACCTGGAACTGGACACAGACAGTAGCTACACAGCTGGACAGATCCCCTTC
CCACCTGCCAGCACTCAAGAGCCACTACACCTTGGAGGTGCTCCAGCCAATTTGACGACACTGAGGATCCCTGTG
TGGAAATCATTCTTTGGCTGTCTGAGGAATATTCATGTCAATCACATCCCTGTCCCTGTCACTGAAGCCTTGGAA
GTCCAGGGGCCTGTCAGTCTGAATGGTTGTCCTGACCAG**TAA**CCCAAGCCTATTTCACAGCAAGGAAATTCACCT
TCAAAAGCACTGATTACCCAATGCACCTCCCTCCCCAGCTCGAGATCATTCTTCAATTAGGACACAAACCAGACA
GGTTAATAGCGAATCTAATTTTGAATTCTGACCATGGATACCCATCACTTTGGCATTCAGTGCTACATGTGTAT
TTTATATAAAAATCCCATTTCTTGAAGATAAAAAAATTGTTATTCAAATTGTTATGCACAGAATGTTTTTGGTAA
TATTAATTTCCACTAAAAAATTAAATGTCTTTT

FIGURE 5041

MGWLWIFGAALGQCLGYSSQQQRVPFLQPPGQSQLQASYVEFRPSQGCSPGYYRDHKGLYTGRCVPCNCNGHSNQ
CQDGSGICVNCQHNTAGEHCERCQEGYYGNAVHGSCRACPCPHTNSFATGCVVNGGDVRCSCKAGYTGTQCERCA
PGYFGNPQKFGGSCQPCSCNSNGQLGSCHPLTGDCINQEPKDSSPAEECDDCDSCVMTLLNDLATMGEQLRLVKS
QLQGLSASAGLLEQMRHMETQAKDLRNQLLNYRSAISNHGSKIEGLERELTDLNQEFETLQEKAQVNSRKAQTLN
NNVNRATQSAKELDVKIKNVIRNVHILLKQISGTDGEGNNVPSGDFSREWAEAQRMMRELRNRNFGKHLREAEAD
KRESQLLLNRIRTWQKTHQGENNGLANSIRDSLNEYEAKLSDLRARLQEAAAQAKQANGLNQENERALGAIQRQV
KEINSLQSDFTKYLTTADSSLLQTNIALQLMEKSQKEYEKLAASLNEARQELSDKVRELSRSAGKTSLVEEAEKH
ARSLQELAKQLEEIKRNASGDELVRCAVDAATAYENILNAIKAAEDAANRAASASESALQTVIKEDLPRKAKTLS
SNSDKLLNEAKMTQKKLKQEVSPALNNLQQTLNIVTVQKEVIDTNLTTLRDGLHGIQRGDIDAMISSAKSMVRKA
NDITDEVLDGLNPIQTDVERIKDTYGRTQNEDFKKALTDADNSVNKLTNKLPDLWRKIESINQQLLPLGNISDNM
DRIRELIQQARDAASKVAVPMRFNGKSGVEVRLPNDLEDLKGYTSLSLFLQRPNSRENGGTENMFVMYLGNKDAS
RDYIGMAVVDGQLTCVYNLGDREAELQVDQILTKSETKEAVMDRVKFQRIYQFARLNYTKGATSSKPETPGVYDM
DGRNSNTLLNLDPENVVFYVGGYPPDFKLPSRLSFPPYKGCIELDDLNENVLSLYNFKKTFNLNTTEVEPCRRRK
EESDKNYFEGTGYARVPTQPHAPIPTFGQTIQTTVDRGLLFFAENGDRFISLNIEDGKLMVRYKLNSELPKERGV
GDAINNGRDHSIQIKIGKLQKRMWINVDVQNTIIDGEVFDFSTYYLGGIPIAIRERFNISTPAFRGCMKNLKKTS
GVVRLNDTVGVTKKCSEDWKLVRSASFSRGGQLSFTDLGLPPTDHLQASFGFQTFQPSGILLDHQTWTRNLQVTL
EDGYIELSTSDSGGPIFKSPQTYMDGLLHYVSVISDNSGLRLLIDDQLLRNSKRLKHISSSRQSLRLGGSNFEGC
ISNVFVQRLSLSPEVLDLTSNSLKRDVSLGGCSLNKPPFLMLLKGSTRFNKTKTFRINQLLQDTPVASPRSVKVW
QDACSPLPKTQANHGALQFGDIPTSHLLFKLPQELLKPRSQFAVDMQTTSSRGLVFHTGTKNSFMALYLSKGRLV
FALGTDGKKLRIKSKEKCNDGKWHTVVFGHDGEKGRLVVDGLRAREGSLPGNSTISIRAPVYLGSPPSGKPKSLP
TNSFVGCLKNFQLDSKPLYTPSSSFGVSSCLGGPLEKGIYFSEEGGHVVLAHSVLLGPEFKLVFSIRPRSLTGIL
IHIGSQPGKHLCVYLEAGKVTASMDSGAGGTSTSVTPKQSLCDGQWHSVAVTIKQHILHLELDTDSSYTAGQIPF
PPASTQEPLHLGGAPANLTTLRIPVWKSFFGCLRNIHVNHIPVPVTEALEVQGPVSLNGCPDQ

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FIGURE 5042

CCTTTCTGCCCGTGGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCTGCCGTCATGTCTAAGTCAGA
GTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACTGATGAGAGCCT
GAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAG
GGGCTTTGGGTTTGTCACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGT
GGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATTTTGGA
GGCAGAAACTCTGGCCCCTATGGCGGTGGAGGCCAGTACTTTGCAAAACCACGAAACCAAGGTGGCTATGGCGGT
TCCAGCAGCAGCAGTAGCTGTGTCAGTGGCAGAAGATTTTAATTAGGAAACAAAGCTTAGCAGGAGAGGAGAGCC
AGAGAAGTGACAGGGAAGCCACAGGTTACAACAGATTTGTGAACTCAGCCAAGCACAGTGGTGGCAGGGCCTAGC
TGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAAACTCGAGGACTGTGTTTGTGACTA
ATTGTATAACAGGTTATTTTAGTTTCTGTTCTGTGGAAAGTGTAAAGCATTCCAACAAAGCGTTTTAATGTAGAT

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FIGURE 5043

CCTTTCTGCCCGTGGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCTGCCGTC**ATG**TCTAAGTCAGA
GTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACTGATGAGAGCCT
GAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAG
GGGCTTTGGGTTTGTCACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGA
TGGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAACTGTGAA
AAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTTGAACAGTATGGTGG
AAGCAATTTTGGAGGTGGTGGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCAT
GAAGGGAGGAAATTTTGGAGGCAGAAACTCTGGCCCCTATGGCGGTGGAGGCCAGTACTTTGCAAAACCACGAAA
CCAAGGTGGCTATGGCGGTTCCAGCAGCAGCAGTAGCTGTGTCAGTGGCAGAAGATTTTAATTAGGAAACAAAGC
TTAGCAGGAGAGGAGAGCCAGAGAAGTGACAGGGAAGCCACAGGTTACAACAGATTTGTGAACTCAGCCAAGCAC
AGTGGTGGCAGGGCCTAGCTGCTAC

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FIGURE 5044

MSKSKSPKEPEQQRKLFIGGLSFETTDESLRSHCEQWGMLTDCVVMRDPNFKHSRGCGFVTYATVEEVDAAMNAR
PHKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEEHHLRDYFEQLEAILQVVEATVILAITTISLQI
LDP

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FIGURE 5045

CCTTTCTGCCCGTGGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCTGCCGTCATGTCTAAGTCAGA
GTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACTGATGAGAGCCT
GAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAG
GGGCTTTGGGTTTGTCACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGA
TGGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAACTGTGAA
AAAGATATTGTGGTGGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGG
GAGGAAATTTTGGAGGCAGAAACTCTGGCCCCT

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FIGURE 5046

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CCTTTCTGCCCGTGGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCTGCCGTCATGTCTAAGTCAGA
GTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACTGATGAGAGCCT
GAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAG
GGGCTTTGGGTTTGTCACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGA
TGGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAACTGTGAA
AAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTTGAACAGTATGGAAA
AATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGACGA
CCATGACTCCGTGGATAAGATTGTCATTCAGAAATACCATACTGTGAATGGCCACAACTGTGAAGTTAGAAAAGC
CCTGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCCAAAGAGGTCGAAGTGGTTCTGGAAACTTTGGTGGTGG
TCGTGGAGGTGGTTTCGGTGGGAATGACAACTTCGGTCATGGAGGAAACTTCAGTGGTCGTGGTGGCTTTGGTGG
CAGCCGTGCTGGTGGTAGATATGGTGGCAGTGGGGATGGCTCTAATGGATTTGGTAATGATGGAAGCAATTTTGG
AGGTGGTGGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAA
TTTTGGAGGCAGAAACTCTGGCCCCTATGGCGGTGGAGGCCAGTACTTTGCAAAACCACGAAACCAAGGTGGCTA
TGGCGGTTCCAGCAGCAGCAGTAGCTGTGTCAGTGGCAGAAGATTTTAATTAGGAAACAAAGCTTAGCAGGAGAG
GAGAGCCAGAGAAGTGACAGGGAAGCCACAGGTTACAACAGATTTGTGAACTCAGCCAAGCACAGTGGTGGCAGG
GCCTAGCTGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAAACTCGAGGACTGTGTTT
GTGACTAATTGTATAACAGGTTATTTTAGTTTCTGTTCTGTGGAAAGTGTAAAGCATTCCAACAAAGCGTTTTAA
TGTAGATTTTTTTTTTTGCACCCATGCTGTTGATTGCTAAATGTAATAGTCTGATCGTGACGCTGAATAAATGT
CTTTTTTTTTTTAATGTGCTGTGTAAAGTTAGTCTACTCTGAAGCCATCTTGGTAAATTTCCCCAACAGTGTGAA
GTTAGAATTCCTTCAGGGTGATGCCAGGTTCTATTTGGAATTTATATACAACCTGCTTGGGTGGAGAAGCCATTG
TCTTCGGAAACCTTGGTGTAGTTGAACTGATAGTTACTGTTGTGACCTGAAGTTCACCATTAAAAGGGATTACCC
AAACAAAGTCATGGAATGGTTATAAAAGTGATTGTTGGCACATCCTATGCAATATATCTAAATTGAATAATGGTA
CCAGATAAAATTATAGATGGGAATGAAGCTTGTGTATCATCCATTATCATGTGTAATCAATAAACAATTTAATTC
TCTTGAA
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FIGURE 5047

MSKSESPKEPEQLRKLFIGGLSFETTDESLRSHFEQWGTLTDCVVMRDPNTKRSRGFGFVTYATVEEVDAAMNAR
PHKVDGRVVEPKRAVSREDSQRPDAHLTVKKIFVGGIKEDTEEHHLRDYFEQYGKIEVIEIMTDRGSGKKRGFAF
VTFDDHDSVDKIVIQKYHTVNGHNCEVRKALSKQEMASASSSQRGRSGSGNFGGGRGGGFGGNDNFGRGGNFSGR
GGFGGSRGGGGYGGSGDGYNGFGNDGSNFGGGGSYNDFGNYNN

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FIGURE 5048

AAGTCTCTCTTCACCCTGCCGTCATGTCTAAGTCAGAGTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCA
TTGGAGGGTTGAGCTTTGAAACAACTGATGAGAGCCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACT
GTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAGGGGCTTTGGGTTTGTCACATATGCCACTGTGGAGGAGG
TGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAG
AAGATTCTCAAAGACCAGGTGCCCACTTAACTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAG
AACATCACCTAAGAGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTG
GCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGACGACCATGACTCCGTGGATAAGATTGTCATTCAGAAATACC
ATACTGTGAATGGCCACAACTGTGAAGTTAGAAAAGCCCTGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCC
AAAGAGGTCGAAGTGGTTCTGGAAACTTTGGTGGTGGTCGTGGAGGTGGTTTCGGTGGGAATGACAACTTCGGTC
ATGGAGGAAACTTCAGTGGTCGTGGTGGCTTTGGTGGCAGCTCTAATGGATTTGGTAATGATGGAAGCAATTTTG
GAGGTGGTGGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAA
ATTTTGGAGGCAGAAACTCTGGCCCCTATGGCGGTGGAGGCCAGTACTTTGCAAAACCACGAAACCAAGGTGGC

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FIGURE 5049

ACCCTGCCGTCATGTCTAAGTCAGAGTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGA
GCTTTGAAACAACTGATGAGAGCCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGA
GAGATCCAAACACCAAGCGCTCCAGGGGCTTTGGGTTTGTCACATATGCCACTGTGGAGGAGGTGGATGCAGCTA
TGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAGAAGATTCTCAAA
GACCAGGTGCCCACTTAACTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAA
GAGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGG
GCTTTGCCTTTGTAACCTTTGACGACCATGACTCCGTGGTGGCTTTGGTGGCAGCCGTGCTGGTGGTAGATATGG
TGGCAGTGGGGATGGCTCTAATGGATTTGGTAATGATGGAAGCAATTTTGGAGGTGGTGGAAGCTACAATGATTT
TGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGG

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FIGURE 5050

TTTTCTTAGACATTAACTGCAGACGGCTGGCAGGATAGAAGCAGCGGCTCACTTGGACTTTTTCACCAGGGAAAT
CAGAGACA**ATG**ATGGGGCTCTTCCCCAGAACTACAGGGGCTCTGGCCATCTTCGTGGTGGTCATATTGGTTCATG
GAGAATTGCGAATAGAGACTAAAGGTCAATATGATGAAGAAGAGATGACTATGCAACAAGCTAAAAGAAGGCAAA
AACGTGAATGGGTGAAATTTGCCAAACCCTGCAGAGAAGGAGAAGATAACTCAAAAAGAAACCCAATTGCCAAGA
TTACTTCAGATTACCAAGCAACCCAGAAAATCACCTACCGAATCTCTGGAGTGGGAATCGATCAGCCGCCTTTTG
GAATCTTTGTTGTTGACAAAAACACTGGAGATATTAACATAACAGCTATAGTCGACCGGGAGGAAACTCCAAGCT
TCCTGATCACATGTCGGGCTCTAAATGCCCAAGGACTAGATGTAGAGAAACCACTTATACTAACGGTTAAAATTT
TGGATATTAATGATAATCCTCCAGTATTTTCACAACAAATTTTCATGGGTGAAATTGAAGAAAATAGTGCCTCAA
ACTCACTGGTGATGATACTAAATGCCACAGATGCAGATGAACCAAACCACTTGAATTCTAAAATTGCCTTCAAAA
TTGTCTCTCAGGAACCAGCAGGCACACCCATGTTCCTCCTAAGCAGAAACACTGGGGAAGTCCGTACTTTGACCA
ATTCTCTTGACCGAGAGCAAGCTAGCAGCTATCGTCTGGTTGTGAGTGGTGCAGACAAAGATGGAGAAGGACTAT
CAACTCAATGTGAATGTAATATTAAAGTGAAAGATGTCAACGATAACTTCCCAATGTTTAGAGACTCTCAGTATT
CAGCACGTATTGAAGAAAATATTTTAAGTTCTGAATTACTTCGATTTCAAGTAACAGATTGGATGAAGAGTACA
CAGATAATTGGCTTGCAGTATATTTCTTTACCTCTGGGAATGAAGGAAATTGGTTTGAAATACAAACTGATCCTA
GAACTAATGAAGGCATCCTGAAAGTGGTGAAGGCTCTAGATTATGAACAACTACAAAGCGTGAAACTTAGTATTG
CTGTCAAAAACAAAGCTGAATTTCACCAATCAGTTATCTCTCGATACCGAGTTCAGTCAACCCCAGTCACAATTC
AGGTAATAAATGTAAGAGAAGGAATTGCATTCCGTCCTGCTTCCAAGACATTTACTGTGCAAAAAGGCATAAGTA
GCAAAAAATTGGTGGATTATATCCTGGGAACATATCAAGCCATCGATGAGGACACTAACAAAGCTGCCTCAAATG
TCAAATATGTCATGGGACGTAACGATGGTGGATACCTAATGATTGATTCAAAAACTGCTGAAATCAAATTTGTCA
AAAATATGAACCGAGATTCTACTTTCATAGTTAACAAAACAATCACAGCTGAGGTTCTGGCCATAGATGAATACA
CGGGTAAAACTTCTACAGGCACGGTATATGTTAGAGTACCCGATTTCAATGACAATTGTCCAACAGCTGTCCTCG
AAAAAGATGCAGTTTGCAGTTCTTCACCTTCCGTGGTTGTCTCCGCTAGAACACTGAATAATAGATACACTGGCC
CCTATACATTTGCACTGGAAGATCAACCTGTAAAGTTGCCTGCCGTATGGAGTATCACAACCCTCAATGCTACCT
CGGCCCTCCTCAGAGCCCAGGAACAGATACCTCCTGGAGTATACCACATCTCCCTGGTACTTACAGACAGTCAGA
ACAATCGGTGTGAGATGCCACGCAGCTTGACACTGGAAGTCTGTCAGTGTGACAACAGGGGCATCTGTGGAACTT
CTTACCCAACCACAAGCCCTGGGACCAGGTATGGCAGGCCGCACTCAGGGAGGCTGGGGCCTGCCGCCATCGGCC
TGCTGCTCCTTGGTCTCCTGCTGCTGCTGTTGGCCCCCCTTCTGCTGTTGACCTGTGACTGTGGGGCAGGTTCTA
CTGGGGGAGTGACAGGTGGTTTTATCCCAGTTCCTGATGGCTCAGAAGGAACAATTCATCAGTGGGGAATTGAAG
GAGCCCATCCTGAAGACAAGGAAATCACAAATATTTGTGTGCCTCCTGTAACAGCCAATGGAGCCGATTTCATGG
AAAGTTCTGAAGTTTGTACAAATACGTATGCCAGAGGCACAGCGGTGGAAGGCACTTCAGGAATGGAAATGACCA
CTAAGCTTGGAGCAGCCACTGAATCGGAGGTGCTGCAGGCTTTGCAACAGGGACAGTGTCAGGAGCTGCTTCAG
GATTCGGAGCAGCCACTGGAGTTGGCATCTGTTCCTCAGGGCAGTCTGGAACCATGAGAACAAGGCATTCCACTG
GAGGAACCAATAAGGACTACGCTGATGGGGCGATAAGCATGAATTTTCTGGACTCCTACTTTTCTCAGAAAGCAT
TTGCCTGTGCGGAGGAAGACGATGGCCAGGAAGCAAATGACTGCTTGTTGATCTATGATAATGAAGGCGCAGATG
CCACTGGTTCTCCTGTGGGCTCCGTGGGTTGTTGCAGTTTTATTGCTGATGACCTGGATGACAGCTTCTTGGACT
CACTTGGACCCAAATTTAAAAAACTTGCAGAGATAAGCCTTGGTGTTGATGGTGAAGGCAAAGAAGTTCAGCCAC
CCTCTAAAGACAGCGGTTATGGGATTGAATCCTGTGGCCATCCCATAGAAGTCCAGCAGACAGGATTGTTAAGT
GCCAGACTTTGTCAGGAAGTCAAGGAGCTTCTGCTTTGTCCGCCTCTGGGTCTGTCCAGCCAGCTGTTTCCATCC
CTGACCCTCTGCAGCATGGTAACTATTTAGTAACGGAGACTTACTCGGCTTCTGGTTCCCTCGTGCAACCTTCCA
CTGCAGGCTTTGATCCACTTCTCACACAAAATGTGATAGTGACAGAAAGGGTGATCGTCCCATTTCCAGTGTTC
CTGGCAACCTAGCTGGCCCAACGCAGCTACGAGGGTCACATACTATGCTCTGTACAGAGGATCCTTGCTCCCGTC
TAATA**TGA**CCAGAATGAGCTGGAATACCACACTGACCAAATCTGGATCTTTGGACTAAAGTATTCAAAATAGCAT
AGCAAAGCTCACTGTATTGGGCTAATAATTTGGCACTTATTAGCTTCTCTCATAAACTGATCACGATTATAAATT
AAATGTTTGGGTTCATACCCCAAAAGCAATATGTTGTCACTCCTAATTCTCAAGTACTATTCAAATTGTAGTAAA
TCTTAAAGTTTTTCAAAACCCTAAAATCATATTCGC

FIGURE 5051

MMGLFPRTTGALAIFVVVILVHGELRIETKGQYDEEEMTMQQAKRRQKREWVKFAKPCREGEDNSKRNPIAKITS
DYQATQKITYRISGVGIDQPPFGIFVVDKNTGDINITAIVDREETPSFLITCRALNAQGLDVEKPLILTVKILDI
NDNPPVFSQQIFMGEIEENSASNSLVMILNATDADEPNHLNSKIAFKIVSQEPAGTPMFLLSRNTGEVRTLTNSL
DREQASSYRLVVSGADKDGEGLSTQCECNIKVKDVNDNFPMFRDSQYSARIEENILSSELLRFQVTDLDEEYTDN
WLAVYFFTSGNEGNWFEIQTDPRTNEGILKVVKALDYEQLQSVKLSIAVKNKAEFHQSVISRYRVQSTPVTIQVI
NVREGIAFRPASKTFTVQKGISSKKLVDYILGTYQAIDEDTNKAASNVKYVMGRNDGGYLMIDSKTAEIKFVKNM
NRDSTFIVNKTITAEVLAIDEYTGKTSTGTVYVRVPDFNDNCPTAVLEKDAVCSSSPSVVVSARTLNNRYTGPYT
FALEDQPVKLPAVWSITTLNATSALLRAQEQIPPGVYHISLVLTDSQNNRCEMPRSLTLEVCQCDNRGICGTSYP
TTSPGTRYGRPHSGRLGPAAIGLLLLGLLLLLLAPLLLLTCDCGAGSTGGVTGGFIPVPDGSEGTIHQWGIEGAH
PEDKEITNICVPPVTANGADFMESSEVCTNTYARGTAVEGTSGMEMTTKLGAATESGGAAGFATGTVSGAASGFG
AATGVGICSSGQSGTMRTRHSTGGTNKDYADGAISMNFLDSYFSQKAFACAEEDDGQEANDCLLIYDNEGADATG
SPVGSVGCCSFIADDLDDSFLDSLGPKFKKLAEISLGVDGEGKEVQPPSKDSGYGIESCGHPIEVQQTGFVKCQT
LSGSQGASALSASGSVQPAVSIPDPLQHGNYLVTETYSASGSLVQPSTAGFDPLLTQNVIVTERVICPISSVPGN
LAGPTQLRGSHTMLCTEDPCSRLI

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FIGURE 5052

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CCCACGCGTCCGGATGGTCCTGGTCACAAAATATTAAAGAGACCGACCGCTAAGGGAACAGGAAAAACGTCCGAG
ACAGCCGTTGCAATTACGAATGGACCAGACTTGGTAGCACGGGGCATTGATTGCTGGTGCCCAACCGGACCCTCC
TCCCCTCTTCCCATCCCTTCCCCCACCCAAAGCAGGCTCCCGCTGCGGCCGGGACCTCGCATCCCTGCAACGTGG
CCGGGGCTGCATTTTTCATGAGCCTAGGGTGAACAGGTGCGAAGTGCGCTGGGAGCATCCGGCCAGCGGCCGAGC
GCGGGGAACATGGAGAGCGAGCGCGACATGTACCGCCAGTTCCAGGACTGGTGCCTCAGGACTTACGGGGACTCA
GGCAAGACCAAGACGGTGACCCGTAAAAAATACGAACGGATCGTCTAGCTCCTCAATGGCTCCGAGTCGAGCTCC
ACGGACAACGCCAAATTTAAATTCTGGGTCAAATCGAAGGGCTTCCAGCTGGGCCAGCCGGACGAGGTCCGCGGG
GGAGGCGGCGGCGCCAAGCAAGTGCTCTAGTGCCTGTCAAGACCACGGATGGCGTAGGGGTAGATGAGAAGCTAT
CTTTACGACGGGTAGCTGTGGTTGAAGATTTCTTTGACATTATTTATTCGATGCATGTGGAAACGGGGCCAAATG
GAGAACAAATTCGGAAACACGCTGGACAAAAGAGAACTTACAAAGCAATTTCAGAGAGCTATGCCTTCCTACCAA
GAGAAGCGGTGACACGATTTCTAATGAGCTGCTCAGAGTGCCAGAAAAGAATGCATTTAAACCCAGATGGAACAG
ATCATAAAGATAATGGAAAACCTCCCACTTTGGTGACCAGCATGATTGACTACAACATGCCAATTACCATGGCCT
ACATGAAACACATGAAGCTGCAGCTGCTAAACTCACAGCAAGATGAGGATGAAAGTTCAATAGAAAGTGATGAAT
TTGACATGAGTGATTCAACACGGATGTCAGCTGTGAACTCTGATCTTAGCTCCAATCTTGAAGAAAGAATGCAAA
GTCCCCAGAATCTTCATGGCCAGCAAGATGATGATTCTGCTGCAGAGAGCTTTAATGGCAATGAGACTCTGGGGC
ACAGTTCAATTGCTTCAGGGGGAACACACAGCAGGGAGATGGGAGACTCCAACAGTGATGGCAAAACTGGGCTGG
AGCAAGATGAACAGCCACTGAACCTGAGTGACAGTCCCCTCTCTGCGCAGCTAACTTCGGAATACAGAATAGATG
ATCACAACAGTAATGGGAAAAACAAGTATAAGAATCTTCTAATTTCTGACCTCAAGATGGAACGAGAGGCGAGAG
AAAATGGAAGCAAGTCTCCTGCACATAGTTACTCCAGCTATGACTCTGGCAAAAATGAGAGTGTAGACCGAGGAG
CTGAGGACCTCTCACTAAACAGGGGAGATGAGGACGAAGATGACCACGAGGACCATGACGATTCGGAGAAAGTTA
ATGAGACAGACGGCGTTGAAGCCGAGCGGCTGAAAGCTTTTAATATGTTTGTCAGGCTGTTTGTAGATGAAAACT
TGGACCGAATGGTCCCAATCTCTAAGCAGCCCAAAGAAAAGATCCAGGCTATCATTGACTCATGCAGGCGACAAT
TCCCTGAGTATCAAGAGCGTGCCAGAAAACGTATACGTACTTACCTCAAGTCCTGCAGGCGGATGAAAAGAAGTG
GTTTTGAGATGTCTCGACCTATTCCTTCCCACCTTACTTCAGCAGTTGCAGAGAGTATCTTGGCTTCAGCTTGTG
AGAGTGAGAGTAGAAATGCCGCCAAGAGGATGCGTCTGGAGAGACAGCAGGATGAGTCTGCTCCAGCTGACAAAC
AGTGTAAACCAGAGGCGACCCAGGCCACTTACTCAACATCAGCTGTTCCAGGCTCACAGGACGTGCTGTACATCA
ATGGAAATGGGACCTATAGTTACCATAGTTACAGAGGGCTAGGAGGGGGTCTGCTAAATCTGAATGATGCTTCCA
GCAGTGGACCCACTGATCTCAGCATGAAGAGACAATTGGCGACTAGCTCAGGATCCTCCAGCAGCTCAAACTCCA
GACCCCAGCTGAGTCCAACTGAAATCAATGCCGTGAGACAGCTTGTTGCAGGATATCGAGAATCAGCTGCATTTT
TATTGCGATCTGCAGATGAACTGGAAAATCTCATTTTACAACAGAACTGAGACAGACGACCACCATATTCACTGA
GGTCTAAATTTGCAGTTCCACTAATGACATTTTGATTTCCCAACAGAGATACTTCTGGTCTTACTGCACAGTCTT
TTAAGAGAAATACTTCCATTATGCCACATTGTCCTTGATCCGTAAGTGATGTGTTAAGGTGCTTCAAAGGAACTC
TGACCTCTGAAGTACTTGAGCTACTTTAGTATGTCCAGCCTATTGCTTTTTGTTTTAGTGTGTCACCATAAATAT
CAGGGGCATAAAAGGCTATCTATTCTTAATTCAAGGATAAAACAGAAGAAGCTTGTGGTATAAAACAATAGTTCA
AGATCCAGCTGAAATATTAGTGGAATTTGCTACTGACTCATTGGACTGAAAGCTGAAGTACCTGGCAAAAAAAA
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FIGURE 5053

MHVETGPNGEQIRKHAGQKRTYKAISESYAFLPREAVTRFLMSCSECQKRMHLNPDGTDHKDNGKPPTLVTSMID
YNMPITMAYMKHMKLQLLNSQQDEDESSIESDEFDMSDSTRMSAVNSDLSSNLEERMQSPQNLHGQQDDDSAAES
FNGNETLGHSSIASGGTHSREMGDSNSDGKTGLEQDEQPLNLSDSPLSAQLTSEYRIDDHNSNGKNKYKNLLISD
LKMEREARENGSKSPAHSYSSYDSGKNESVDRGAEDLSLNRGDEDEDDHEDHDDSEKVNETDGVEAERLKAFNMF
VRLFVDENLDRMVPISKQPKEKIQAIIDSCRRQFPEYQERARKRIRTYLKSCRRMKRSGFEMSRPIPSHLTSAVA
ESILASACESESRNAAKRMRLERQQDESAPADKQCKPEATQATYSTSAVPGSQDVLYINGNGTYSYHSYRGLGGG
LLNLNDASSSGPTDLSMKRQLATSSGSSSSSNSRPQLSPTEINAVRQLVAGYRESAAFLLRSADELENLILQQN

FIGURE 5054

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ATCTTGCTGGTTTGCGGCCGGTCTTGGATGAAGCGGCGGCCGTGGTGAGAGCGTGGGGAAGGGTGGGGTGAGGGG
GCGAGGCCGCAGCTAGGGCGGCGAAACTCTCCTCCCCTCGGCCCCACCGCGTGGGACGGCGTGAACGTGGTGTCG
GAGGGATGTCAGCCTTCTCTGAGGCGGCGCTGGAGAAGAAGCTGTCGGAGTTGAGCAACTCGCAGCAGAGCGTGC
AGACCTTGTCCCTGTGGCTCATTCACCACCGTAAACACTCGCGTCCCATCGTCACCGTGTGGGAGCGGGAGCTGC
GGAAAGCCAAACCAAACAGGAAGCTTACTTTTCTCTACCTAGCCAATGATGTCATACAGAACAGCAAGAGGAAGG
GGCCAGAGTTTACAAAAGATTTTGCACCAGTTATAGTGGAGGCTTTTAAGCATGTTTCAAGTGAAACTGATGAAA
GTTGTAAGAAGCACCTTGGAAGAGTGTTATCTATTTGGGAAGAAAGGTCTGTTTATGAAAATGATGTATTAGAAC
AACTTAAACAAGCTCTGTATGGTGATAAGAAGCCTAGGAAGCGAACTTATGAACAGATAAAGGTGGATGAAAATG
AAAACTGTTCCTCTCTGGGATCTCCAAGTGAACCACCACAGACTCTAGATCTCGTTAGAGCATTACAAGATCTGG
AAAATGCAGCCTCAGGTGATGCAGCAGTTCATCAGAGGATAGCTTCTTTACCTGTTGAAGTCCAAGAAGTATCTC
TATTAGATAAAATAACAGATAAAGAATCTGGAGAAAGGCTTTCCAAAATGGTAGAGGATGCGTGTATGTTGCTGG
CAGATTACAATGGCAGATTGGCGGCAGAAATAGATGATAGAAAGCAACTCACTCGAATGTTAGCAGATTTTCTTC
GTTGTCAAAAGGAAGCCCTTGCAGAGAAAGAGCATAAATTGGAAGAGTACAAGCGCAAGCTAGCCAGAGTTTCCC
TGGTGCGCAAAGAACTCAGGTCCCGGATCCAGAGCCTGCCAGACTTATCTCGATTGCCCAATGTCACTGGCAGCC
ACATGCACCTGCCCTTTGCGGGAGACATCTACAGTGAAGATTGATGGACCAGCCTCTTTCCAGGTCCCAGGACTT
TGCAAGAGATGGAGACAGGTTAGGTGGATAGTCCTGTAGTGTTATTTTTGTATATTGTTGAGAAAGAAACACTAA
CAAAAGGAACAACGAGTAATTTATAAAATTGTTTAAAATGTTGGTTTGTTTACTATTTTATTGGTAAATTAACAT
GACTTAATTTGAACAAAGTGATGATTTGTGTGTATTAATAAGCTCACAAATAGTGATTATTTTCAAAAGATCTTT
TTGTAAATTTTTTTTTTGATCCAAGGCCTTGTGAGAAATCTCTTGTTTGTATTTCTTCAGGTATTTTCAATTGTT
TTTCTTTATTTTCTTCAGCATTTAATCACTGTATACTATGTAATTCCTGAAGGGGAAGAACTAATTAGGAGTTGA
TTGAGACTTTATTATGGTATAGTTAGGACTTGATTGTAGAAGGGACTAAATGTTCCAACATAATCTTTACCCTTC
TCCCCAAACAAAATATCAATTCTGTGTCTCTACATGCCTTTGATTCCTTAGAGGTCGGTAATTTAACATAAAACA
GGGATGTCACTTTGAGGGGCAGATGAAAGTCTAGAGAACTGTTCCTTAATAGCATTGTAAAAGTTCCATTCCAAC
TGCCAGTGTAGATTTAAAAGTGTTAAATAGTGACTCCCTTGATTAAACTGTTTGTAATTATTTGAGTAGATTAA
TAATGAAAATACTTTGGAAATAATATACATTTTGACATTCTACCAAGAGGACAACTTTGGTTCTGGAACTGGTTT
CTATTTGTCAAATCAGTTTCCTTTTAACATAATTAATCCCTTTAACAAAAAGCCGTCATGGGATTAAAAGACAC
GTGAAATGATACTTTTATTATTCCCTTGCTCATATAACTTTAAAAATAATACTTTTAGCTCTAATAGCTCAAGAA
CACAATATTCGTTAATGTTCAGTAAAGTAGCCTGAGACATTTTCAATGTTTCCTTAAGGTTTTTGAATGACTGTA
TATTTGGCAGTTAAGCAGTGCCACACTACAGGGTAGATATGGTAAATTTTATATTTGTATATTTACAGTTACAAA
ACAAATGTACTTTTACCTTTTATTTCTGACCCTGTGTGTTAGAGCAGTTGCATGCTCTCCTGCTGTTAAAAACAC
ATTGTTAAGCTGTGGATTTGTACTCAATAATGACTTAGGATAAACATTTATTTTCATTCATTGCTTTACATACTA
GACATTTTTCTTCTCTTTGTAAGTAGATTCAAATTAGATAGTCAATAAAACATCTTGAAAATCCCACAAGCC
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FIGURE 5055

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ACCGCGTGTTCGCGCCTGGTAGAGATTTCTCGAAGACACCAGTGGGCCCGTTCCGAGCCCTCTGGACCGCCCGTG
TGGAACCAAACCTGCGCGCGTGGCCGGGCCGTGGGACAACGAGGCCGCGGAGACGAAGGCGCAATGGCGAGGAAG
TTATCTGTAATCTTGATCCTGACCTTTGCCCTCTCTGTCACAAATCCCCTTCATGAACTAAAAGCAGCTGCTTTC
CCCCAGACCACTGAGAAAATTAGTCCGAATTGGGAATCTGGCATTAATGTTGACTTGGCAATTTCCACACGGCAA
TATCATCTACAACAGCTTTTCTACCGCTATGGAGAAAATAATTCTTTGTCAGTTGAAGGGTTCAGAAAATTACTT
CAAAATATAGGCATAGATAAGATTAAAAGAATCCATATACACCATGACCACGACCATCACTCAGACCACGAGCAT
CACTCAGACCATGAGCGTCACTCAGACCATGAGCATCACTCAGAGCACGAGCATCACTCTGACCATGATCATCAC
TCTCACCATAATCATGCTGCTTCTGGTAAAAATAAGCGAAAAGCTCTTTGCCCAGACCATGACTCAGATAGTTCA
GGTAAAGATCCTAGAAACAGCCAGGGGAAAGGAGCTCACCGACCAGAACATGCCAGTGGTAGAAGGAATGTCAAG
GACAGTGTTAGTGCTAGTGAAGTGACCTCAACTGTGTACAACACTGTCTCTGAAGGAACTCACTTTCTAGAGACA
ATAGAGACTCCAAGACCTGGAAAACTCTTCCCCAAAGATGTAAGCAGCTCCACTCCACCCAGTGTCACATCAAAG
AGCCGGGTGAGCCGGCTGGCTGGTAGGAAAACAAATGAATCTGTGAGTGAGCCCCGAAAAGGCTTTATGTATTCC
AGAAACACAAATGAAAATCCTCAGGAGTGTTTCAATGCATCAAAGCTACTGACATCTCATGGCATGGGCATCCAG
GTTCCGCTGAATGCAACAGAGTTCAACTATCTCTGTCCAGCCATCATCAACCAAATTGATGCTAGATCTTGTCTG
ATTCATACAAGTGAAAAGAAGGCTGAAATCCCTCCAAAGACCTATTCATTACAAATAGCCTGGGTTGGTGGTTTT
ATAGCCATTTCCATCATCAGTTTCCTGTCTCTGCTGGGGGTTATCTTAGTGCCTCTCATGAATCGGGTGTTTTTC
AAATTTCTCCTGAGTTTCCTTGTGGCACTGGCCGTTGGGACTTTGAGTGGTGATGCTTTTTTACACCTTCTTCCA
CATTCTCATGCAAGTCACCACCATAGTCATAGCCATGAAGAACCAGCAATGGAAATGAAAAGAGGACCACTTTTC
AGTCATCTGTCTTCTCAAAACATAGAAGAAAGTGCCTATTTTGATTCCACGTGGAAGGGTCTAACAGCTCTAGGA
GGCCTGTATTTCATGTTTCTTGTTGAACATGTCCTCACATTGATCAAACAATTTAAAGATAAGAAGAAAAAGAAT
CAGAAGAAACCTGAAAATGATGATGATGTGGAGATTAAGAAGCAGTTGTCCAAGTATGAATCTCAACTTTCAACA
AATGAGGAGAAAGTAGATACAGATGATCGAACTGAAGGCTATTTACGAGCAGACTCACAAGAGCCCTCCCACTTT
GATTCTCAGCAGCCTGCAGTCTTGGAAGAAGAAGAGGTCATGATAGCTCATGCTCATCCACAGGAAGTCTACAAT
GAATATGTACCCAGAGGGTGCAAGAATAAATGCCATTCACATTTCCACGATACACTCGGCCAGTCAGACGATCTC
ATTCACCACCATCATGACTACCATCATATTCTCCATCATCACCACCACCAAAACCACCATCCTCACAGTCACAGC
CAGCGCTACTCTCGGGAGGAGCTGAAAGATGCCGGCGTCGCCACTCTGGCCTGGATGGTGATAATGGGTGATGGC
CTGCACAATTTCAGCGATGGCCTAGCAATTGGTGCTGCTTTTACTGAAGGCTTATCAAGTGGTTTAAGTACTTCT
GTTGCTGTGTTCTGTCATGAGTTGCCTCATGAATTAGGTGACTTTGCTGTTCTACTAAAGGCTGGCATGACCGTT
AAGCAGGCTGTCCTTTATAATGCATTGTCAGCCATGCTGGCGTATCTTGGAATGGCAACAGGAATTTTCATTGGT
CATTATGCTGAAAATGTTTCTATGTGGATATTTGCACTTACTGCTGGCTTATTCATGTATGTTGCTCTGGTTGAT
ATGGTACCTGAAATGCTGCACAATGATGCTAGTGACCATGGATGTAGCCGCTGGGGGTATTTCTTTTTACAGAAT
GCTGGGATGCTTTTGGGTTTTGGAATTATGTTACTTATTTCCATATTTGAACATAAAATCGTGTTTCGTATAAAT
TTCTAGTTAAGGTTTAAATGCTAGAGTAGCTTAAAAAGTTGTCATAGTTTCAGTAGGTCATAGGGAGATGAGTTT
GTATGCTGTACTATGCAGCGTTTAAAGTTAGTGGGTTTTGTGATTTTTGTATTGAATATTGCTGTCTGTTACAAA
GTCAGTTAAAGGTACGTTTTAATATTTAAGTTATTCTATCTTGGAGATAAAATCTGTATGTGCAATTCACCGGTA
TTACCAGTTTATTATGTAAACAAGAGATTTGGCATGACATGTTCTGTATGTTTCAGGGAAAAATGTCTTTAATGC
TTTTTCAAGAACTAACACAGTTATTCCTATACTGGATTTTAGGTCTCTGAAGAACTGCTGGTG
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FIGURE 5056

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AGTTGGCGACATGGTGGCACCCGTGCTGGAGACTTCTCACGTGTTTTGCTGCCCAAACCGGGTGCGGGGAGTCCT
GAACTGGAGCTCTGGGCCCAGAGGACTTCTGGCCTTTGGCACGTCCTGCTCCGTGGTGCTCTATGACCCCCTGAA
AAGGGTTGTTGTTACCAACTTGAATGGTCACACCGCCCGAGTCAATTGCATACAGTGGATTTGTAAACAGGATGG
CTCCCCTTCTACTGAATTAGTTTCTGGAGGATCTGATAATCAAGTGATTCACTGGGAAATAGAGGATAATCAGCT
TTTAAAAGCAGTGCATCTTCAAGGCCATGAAGGACCTGTTTATGCGGTGCATGCTGTTTACCAGAGGAGGACATC
AGATCCTGCATTATGTACACTGATCGTTTCTGCAGCTGCAGATTCTGCTGTTCGACTCTGGTCTAAAAAGGGTCC
AGAAGTAATGTGCCTTCAGACTTTAAACTTTGGAAATGGATTTGCTTTGGCTCTCTGCTTATCTTTTTTGCCAAA
TACTGATGTACCAATATTAGCATGTGGCAATGATGATTGCAGAATTCACATATTTGCTCAACAAAATGATCAGTT
TCAGAAAGTGCTTTCTCTCTGTGGACATGAGGATTGGATTAGAGGAGTGGAATGGGCAGCCTTTGGTAGAGATCT
TTTCCTAGCAAGCTGTTCACAAGATTGCCTGATAAGAATATGGAAGCTGTATATAAAGTCAACATCTTTAGAAAC
TCAGGATGACGATAACATAAGACTGAAAGAAAATACTTTTACCATAGAAAATGAAAGTGTTAAAATAGCATTTGC
TGTTACTCTGGAGACAGTGCTAGCCGGTCATGAAAACTGGGTAAATGCAGTTCACTGGCAACCTGTGTTTTACAA
AGATGGTGTCCTACAGCAGCCAGTGAGATTATTATCTGCTTCCATGGATAAAACCATGATTCTCTGGGCTCCAGA
TGAAGAGTCAGGAGTTTGGCTAGAACAGGTTCGAGTAGGTGAAGTAGGTGGGAATACTTTGGGATTTTATGATTG
CCAGTTCAATGAAGATGGCTCCATGATCATTGCTCATGCTTTCCACGGAGCGTTGCACCTTTGGAAACAGAATAC
AGTTAACCCAAGAGAGTGGACTCCAGAGATTGTCATTTCAGGACACTTTGATGGTGTCCAAGACCTAGTCTGGGA
TCCAGAAGGAGAATTTATTATCACTGTTGGTACTGATCAGACAACTAGACTTTTTGCTCCATGGAAGAGAAAAGA
CCAATCACAGGTGACTTGGCATGAAATTGCAAGGCCTCAGATACATGGGTATGACCTGAAATGTTTGGCAATGAT
TAATCGGTTTCAGTTTGTATCTGGAGCAGATGAAAAAGTTCTTCGGGTTTTTTCTGCACCTCGGAATTTTGTGGA
AAATTTTTGTGCCATTACAGGACAATCACTGAATCATGTGCTCTGTAATCAAGATAGTGATCTTCCAGAAGGAGC
CACTGTCCCTGCATTGGGATTATCAAATAAAGCTGTCTTTCAGGGAGATATAGCTTCTCAGCCTTCTGATGAAGA
GGAGCTGTTAACTAGTACTGGTTTTGAGTATCAGCAGGTGGCCTTTCAGCCCTCCATACTTACTGAGCCTCCCAC
TGAGGATCATCTTCTGCAGAATACTTTGTGGCCTGAAGTTCAAAAACTATATGGGCACGGTTATGAAATATTTTG
TGTTACTTGTAACAGTTCAAAGACTCTGCTTGCCTCAGCTTGTAAGGCAGCTAAGAAAGAGCATGCAGCTATCAT
TCTTTGGAACACTACATCTTGGAAACAGGTGCAGAATTTAGTTTTCCACAGTTTGACAGTCACGCAGATGGCCTT
CTCACCTAATGAGAAGTTCTTACTAGCTGTTTCCAGAGATCGAACCTGGTCATTGTGGAAAAAGCAGGATACAAT
CTCACCTGAGTTCGAGCCAGTTTTTAGTCTTTTTGCCTTCACCAACAAAATTACTTCTGTGCACAGTAGAATTAT
TTGGTCTTGTGATTGGAGTCCTGACAGCAAGTATTTCTTCACTGGGAGTCGAGACAAAAAGGTGGTTGTCTGGGG
TGAGTGCGACTCCACTGATGACTGTATTGAGCACAACATTGGCCCCTGCTCCTCAGTCCTGGACGTGGGTGGGGC
TGTGACAGCTGTCAGCGTCTGCCCAGTGCTCCACCCTTCTCAACGATACGTGGTTGCAGTAGGATTGGAGTGTGG
AAAGATTTGCTTATATACCTGGAAAAAGACTGATCAAGTTCCAGAAATAAATGACTGGACCCACTGTGTAGAAAC
AAGTCAAAGCCAAAGTCATACACTGGCTATCAGAAAATTATGCTGGAAGAATTGCAGTGGAAAAACTGAACAGAA
GGAAGCAGAAGGTGCTGAGTGGTTACACTTTGCAAGCTGTGGTGAAGATCACACTGTGAAGATACACAGAGTCAA
TAAATGTGCACTGTAATGG
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FIGURE 5057

MVAPVLETSHVFCCPNRVRGVLNWSSGPRGLLAFGTSCSVVLYDPLKRVVVTNLNGHTARVNCIQWICKQDGSPS
TELVSGGSDNQVIHWEIEDNQLLKAVHLQGHEGPVYAVHAVYQRRTSDPALCTLIVSAAADSAVRLWSKKGPEVM
CLQTLNFGNGFALALCLSFLPNTDVPILACGNDDCRIHIFAQQNDQFQKVLSLCGHEDWIRGVEWAAFGRDLFLA
SCSQDCLIRIWKLYIKSTSLETQDDDNIRLKENTFTIENESVKIAFAVTLETVLAGHENWVNAVHWQPVFYKDGV
LQQPVRLLSASMDKTMILWAPDEESGVWLEQVRVGEVGGNTLGFYDCQFNEDGSMIIAHAFHGALHLWKQNTVNP
REWTPEIVISGHFDGVQDLVWDPEGEFIITVGTDQTTRLFAPWKRKDQSQVTWHEIARPQIHGYDLKCLAMINRF
QFVSGADEKVLRVFSAPRNFVENFCAITGQSLNHVLCNQDSDLPEGATVPALGLSNKAVFQGDIASQPSDEEELL
TSTGFEYQQVAFQPSILTEPPTEDHLLQNTLWPEVQKLYGHGYEIFCVTCNSSKTLLASACKAAKKEHAAIILWN
TTSWKQVQNLVFHSLTVTQMAFSPNEKFLLAVSRDRTWSLWKKQDTISPEFEPVFSLFAFTNKITSVHSRIIWSC
DWSPDSKYFFTGSRDKKVVVWGECDSTDDCIEHNIGPCSSVLDVGGAVTAVSVCPVLHPSQRYVVAVGLECGKIC
LYTWKKTDQVPEINDWTHCVETSQSQSHTLAIRKLCWKNCSGKTEQKEAEGAEWLHFASCGEDHTVKIHRVNKCA
L

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FIGURE 5058

CTCTCCTCCCGCCGCCCAAG**ATG**CCGAAAGGAAAGAAGGCCAAGGGAAAGAAGGTGGCTCCGGCCCCTGCTGTCG
TGAAGAAGCAGGAGGCTAAGAAAGTGGTGAATCCCCTGCTTGAGAAAAGGCCTAAGAATTTTGGCATTGGACAGG
ACATCCAGCCCAAAAGAGACCTCACCCGCTTTGTGAAATGGCCCCGCTATATCAGGTTGCAGCGGCAGAGAGCCA
TCCTCTATAAGCGGCTGAAAGTGCCTCCTGCGATTAACCAGTTCACCCAGGCCCTGGACCGCCAAACAGCTACTC
AGCTGCTTAAGCTGGCCCACAAATACAGACCAGAGACAAAGCAAGAGAAGAAGCAGAGACTGCTGGCCCGGGAGG
AGAAGAAAGCTGCTGGCAAAGGGGACGTCCCCACGAAAAGACCACCTGTCCTTCGAGCAGGAGTTAATACCGTCA
CCACCTTGGTGGAGAACAAGAAAGCTCAGCTGGTGGTAATTGCACATGACGTGGATCCCATCGAGCTGGTTGTCT
TCTTGGCTGCCCTGTGTCGTAAAATGGGGGTCCCTTACTGCATTATCAAGGGGAAGGCAAGACTGGGACGTCTAG
TCCACAGGAAGACCTGCACCACTGTCGCCTTCACACAGGTGAACTCGGAAGACAAAGGCACTTTGGCTAAGCTGA
TGGAAGCTATCAGGACCAATTACAATGACAGATACGATGAGATCCGCCGTCACTGGGGCGGCAACGTCCTGGGTC
CTAAGTCTGTGGCTCGTATCGCCAAGCTCGAAAAGGCAAAGGCTAAAGACCTTGCCACTAAACTGGGT**TAA**ATGT
ACACTGTTGAGTTTTCTGTACATAAAAATAATTAAAATAATACAAATTTTCTTC

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FIGURE 5059

MPKGKKAKGKKVAPAPAVVKKQEAKKVVNPLLEKRPKNFGIGQDIQPKRDLTRFVKWPRYIRLQRQRAILYKRLK
VPPAINQFTQALDRQTATQLLKLAHKYRPETKQEKKQRLLAREEKKAAGKGDVPTKRPPVLRAGVNTVTTLVENK
KAQLVVIAHDVDPIELVVFLAALCRKMGVPYCIIKGKARLGRLVHRKTCTTVAFTQVNSEDKGTLAKLMEAIRTN
YNDRYDEIRRHWGGNVLGPKSVARIAKLEKAKAKDLATKLG

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FIGURE 5060

GGCACGAGGGCGGGGCGCATCTCCCGCTAGGAGTTCCTAGTAAAGTGGCGGGAGCCGCAGCT**ATG**GAGCCGCAGG
AGGAGAGAGAAACGCAGGTTGCTGCGTGGTTAAAAAAAATATTTGGAGATCATCCTATTCCACAGTATGAGGTGA
ACCCACGGACCACAGAGATTTTACATCACCTTTCAGAACGCAACAGGGTCCGGGACAGGGATGTCTACCTGGTAA
TAGAGGACTTGAAGCAGAAAGCAAGTGAATACGAGTCAGAAGCCAAGTATCTTCAAGACCTTCTCATGGAGAGTG
TGAATTTTTCCCCCGCCAATCTCTCTAGCACTGGTTCCAGGTATCTGAATGCTTTGGTTGACAGTGCGGTGGCCC
TTGAAACAAAGGATACCTCGCTAGCTAGTTTTATCCCTGCAGTGAATGATTTGACCTCTGATCTCTTTCGTACCA
AATCCAAAAGTGAAGAAATCAAGATTGAACTGGAAAAACTTGAAAAAAATTTAACTGCAACTTTAGTATTAGAAA
AATGTCTACAAGAGGATGTCAAGAAAGCAGAGTTGCATCTGTCTACAGAAAGGGCCAAAGTTGATAATCGTCGTC
AGAACATGGACTTTCTAAAAGCAAAGTCAGAGGAATTCAGATTTGGAATCAAGGCTGCAGAGGAGCAACTTTCAG
CCAGAGGCATGGATGCTTCTCTGTCTCATCAGTCCTTAGTAGCACTATCAGAGAAACTGGCAAGATTAAAGCAAC
AGACTATACCTTTGAAGAAAAAATTGGAGTCCTATTTAGACTTAATGCCGAATCCGTCTCTTGCTCAAGTGAAAA
TTGAAGAAGCAAAGCGAGAACTAGATAGCATTGAAGCTGAACTTACAAGAAGAGTAGACATGATGGAACTG**TGA**C
AAAAGCCAAATAAACATCCTTTTCCCTAACAAAGTAAATTGAATAGGACTTTACAGAGTTCTTTTTCCTCTTGGC
ATTTCCTAATAACAAAACTTTCTGTGTTCTTAGATTACAGAATATCATAATTGATAGAATATGGTTTCTTACTGT
GTGTTGCATTTTTGTGCCCAAATACATAGTTTTCATATTAAAAAGCCTTTCTCTTAAAAAAAAAAAAAAAAAAAA
AA

FIGURE 5061

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MEPQEERETQVAAWLKKIFGDHPIPQYEVNPRTTEILHHLSERNRVRDRDVYLVIEDLKQKASEYESEAKYLQDL
LMESVNFSPANLSSTGSRYLNALVDSAVALETKDTSLASFIPAVNDLTSDLFRTKSKSEEIKIELEKLEKNLTAT
LVLEKCLQEDVKKAELHLSTERAKVDNRRQNMDFLKAKSEEFRFGIKAAEEQLSARGMDASLSHQSLVALSEKLA
RLKQQTIPLKKKLESYLDLMPNPSLAQVKIEEAKRELDSIEAELTRRVDMMEL
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FIGURE 5062

GTCCCAGTCAGTCCGGAGGCTGCGGCTGCAGAAGTACCGCCTGCGGAGTAACTGCAAAG**ATG**CTGTCCGTGCGCG
TTGCTGCGGCCGTGGTCCGCGCCCTTCCTCGGCGGGCCGGACTGGTCTCCAGAAATGCTTTGGGTTCATCTTTCA
TTGCTGCAAGGAACTTCCATGCCTCTAACACTCATCTTCAAAAGACTGGGACTGCTGAGATGTCCTCTATTCTTG
AAGAGCGTATTCTTGGAGCTGATACCTCTGTTGATCTTGAAGAAACTGGGCGTGTCTTAAGTATTGGTGATGGTA
TTGCCCGCGTACATGGGCTGAGGAATGTTCAAGCAGAAGAAATGGTAGAGTTTTCTTCAGGCTTAAAGGGTATGT
CCTTGAACTTGGAACCTGACAATGTTGGTGTTGTCGTGTTTGGAAATGATAAACTAATTAAGGAAGGAGATATAG
TGAAGAGGACAGGAGCCATTGTGGACGTTCCAGTTGGTGAGGAGCTGTTGGGTCGTGTAGTTGATGCCCTTGGTA
ATGCTATTGATGGAAAGGGTCCAATTGGTTCCAAGACGCGTAGGCGAGTTGGTCTGAAAGCCCCCGGTATCATTC
CTCGAATTTCAGTGCGGGAACCAATGCAGACTGGCATTAAGGCTGTGGATAGCTTGGTGCCAATTGGTCGTGGTC
AGCGTGAACTGATTATTGGTGACCGACAGACTGGGAAAACCTCAATTGCTATTGACACAATCATTAACCAGAAAC
GTTTCAATGATGGATCTGATGAAAAGAAGAAGCTGTACTGTATTTATGTTGCTATTGGTCAAAAGAGATCCACTG
TTGCCCAGTTGGTGAAGAGACTTACAGATGCAGATGCCATGAAGTACACCATTGTGGTGTCGGCTACGGCCTCGG
ATGCTGCCCCACTTCAGTACCTGGCTCCTTACTCTGGCTGTTCCATGGGAGAGTATTTTAGAGACAATGGCAAAC
ATGCTTTGATCATCTATGACGACTTATCCAAACAGGCTGTTGCTTACCGTCAGATGTCTCTGTTGCTCCGCCGAC
CCCCTGGTCGTGAGGCCTATCCTGGTGATGTGTTCTACCTACACTCCCGGTTGCTGGAGAGAGCAGCCAAAATGA
ACGATGCTTTTGGTGGTGGCTCCTTGACTGCTTTGCCAGTCATAGAAACACAGGCTGGTGATGTGTCTGCTTACA
TTCCAACAAATGTCATTTCCATCACTGACGGACAGATCTTCTTGGAAACAGAATTGTTCTACAAAGGTATCCGCC
CTGCAATTAACGTTGGTCTGTCTGTATCTCGTGTCGGATCCGCTGCCCAAACCAGGGCTATGAAGCAGGTAGCAG
GTACCATGAAGCTGGAATTGGCTCAGTATCGTGAGGTTGCTGCTTTTGCCCAGTTCGGTTCTGACCTCGATGCTG
CCACTCAACAACTTTTGAGTCGTGGCGTGCGTCTAACTGAGTTGCTGAAGCAAGGACAGTATTCTCCCATGGCTA
TTGAAGAACAAGTGGCTGTTATCTATGCGGGTGTAAGGGGATATCTTGATAAACTGGAGCCCAGCAAGATTACAA
AGTTTGAGAATGCTTTCTTGTCTCATGTCGTCAGCCAGCACCAAGCCTTGTTGGGCACTATCAGGGCTGATGGAA
AGATCTCAGAACAATCAGATGCAAAGCTGAAAGAGATTGTAACAAATTTCTTGGCTGGATTTGAAGCT**TAA**ACTC
CTGTGGATTCACATCAAATACCAGTTCAGTTTTGTCATTGTTCTAGTAAATTAGTTCCATTTGTAAAAGGGTTAC
TCTCATACTCCTTATGTACAGAAATCACATGAAAAATAAAGGTTCCATAATGC

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FIGURE 5063

MLSVRVAAAVVRALPRRAGLVSRNALGSSFIAARNFHASNTHLQKTGTAEMSSILEERILGADTSVDLEETGRVL
SIGDGIARVHGLRNVQAEEMVEFSSGLKGMSLNLEPDNVGVVVFGNDKLIKEGDIVKRTGAIVDVPVGEELLGRV
VDALGNAIDGKGPIGSKTRRRVGLKAPGIIPRISVREPMQTGIKAVDSLVPIGRGQRELIIGDRQTGKTSIAIDT
IINQKRFNDGSDEKKKLYCIYVAIGQKRSTVAQLVKRLTDADAMKYTIVVSATASDAAPLQYLAPYSGCSMGEYF
RDNGKHALIIYDDLSKQAVAYRQMSLLLRRPPGREAYPGDVFYLHSRLLERAAKMNDAFGGGSLTALPVIETQAG
DVSAYIPTNVISITDGQIFLETELFYKGIRPAINVGLSVSRVGSAAQTRAMKQVAGTMKLELAQYREVAAFAQFG
SDLDAATQQLLSRGVRLTELLKQGQYSPMAIEEQVAVIYAGVRGYLDKLEPSKITKFENAFLSHVVSQHQALLGT
IRADGKISEQSDAKLKEIVTNFLAGFEA

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FIGURE 5064

CCATGGACTTTATCAACGACGCCACCGACGTCAACGATGCCCTGGGCTATGTGACCCGCTTCTACCGCGAGGCCT
CGTCCGGCGCTGCCAAGAAGAGGCTGCTGCTCTTCTCAGATGGCAACTCGCAGGGCGCCACGCCCGCTGCCATCG
AGAAGGCCGTGCAGGAAGCCCAGCGGGCAGGCATCGAGATCTTCGTGGTGGTCGTGGGCCGCCAGGTGAATGAGC
CCCACATCCGCGTCCTGGTCACCGGCAAGACGGCCGAGTACGACGTGGCCTACGGCGAGAGCCACCTGTTCCGTG
TCCCCAGCTACCAGGCCCTGCTCCGCGGTGTCTTCCACCAGACAGTCTCCAGGAAGGTGGCGCTGGGCTAGCCCA
CCCTGCACGCCGGCACCAAACCCTGTCCTCCCACCCCTCCCCACTCATCACTAAACAGAGTAAAATGTGATGCGA
ATTTTCCCGACCAACCTGATTCGCTAGATTTTTTTCCTTCTGTGTTTTTTTCTGAACCATATCCATGTTGCTGAC
TTTTCCAAATAAAGGTTTTCACTCCTC

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FIGURE 5065

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CTCAGCCCCAGCTCCAACAGAAGCAGCCCGGCCACCCACTCCCCGTGACCGCCCACGCCACATGGACACAGCCCT
CGCCCTCCGCCCCGGCTTTTCTCTGCCTTTCTACCGACCATGTGACCCCGCACCAGCCCTGCCCCCACCTGCCCT
CCCGGGCAGTACTGGGGACCTTCCCTGGGGGACGGGGAGGGAGGAGGCAGCGACTCCTTGGACAGAGGCCTGGGC
CCTCAGTGGACTGCCTGCTCCCACAGCCTGGGCTGACGTCAGAGGCCGAGGCCAGGAACTGAGTGAGGCCCCTGG
TCCTGGGTCTCAGGATGGGTCCTGGGGGCCTCGTGTTCATCAAGACACCCCTCTGCCCAGCTCACCACATCTTCA
TCACCAGCAAACGCCAGGACTTGGCTCCCCCATCCTCAGAACTCACAAGCCATTGCTCCCCAGCTGGGGAACCTC
AACCTCCCCCCTGCCTCGGTTGGTGACAGAGGGGGTGGGACAGGGGCGGGGGGTTCCCCCTGTACATACCCTGCC
ATACCAACCCCAGGTATTAATTCTCGCTGGTTTTGTTTTTATTTTAATTTTTTTGTTTTGATTTTTTTAATAAGA
ATTTTCATTTTAAGCACATTTATACTGAAGGAATTTGTGCTGTGTATTGGGGGGAGCTGGATCCAGAGCTGGAGG
GGGTGGGTCCGGGGGAGGGAGTGGCTCGGAAGGGGCCCCCACTCTCCTTTCATGTCCCTGTGCCCCCCAGTTCTC
CTCCTCAGCCTTTTCCTCCTCAGTTTTCTCTTTAAAACTGTGAAGTACTAACTTTCCAAGGCCTGCCTTCCCCTC
CCTCCCACTGGAGAAGCCGCCAGCCCCTTTCTCCCTCTGCCTGACCACTGGGTGTGGACGGTGTGGGGCAGCCCT
GAAAGGACAGGCTCCTGGCCTTGGCACTTGCCTGCACCCACCATGAGGCATGGAGCAGGGCATAGCAAGGGCCCC
GGGACAGAGTTTTCCCAGACCTGGCTCCTCGGCAGAGCTGCCTCCCGTCAGGGCCCACATCATCTAGGCTCCCCA
GCCCCCACTGTGAAGGGGCTGGCCAGGGGCCCGAGCTGCCCCCACCCCCGGCCTCAGCCACCAGCACCCCCATAG
GGCCCCCAGACACCACACACATGCGCGTGCGCACACACACAAACACACACACACTGGACAGTAGATGGGCCGACA
CACACTTGGCCCGAGTTCCTCCATTTCCCTGGCXTGGCCCCCCACCCCCAACCTGTCCCACCCCCGTGCCCCCTC
CTTACCCCGCAGGACGGGCCTACAGGGGG
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FIGURE 5066

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AGGTTCGATACAAGAGGCTGTTTTCCTAGCGTGGCTTGCTGCCTTTGGTAAGAACATGTCGTCCATCTTGCCATT
CACGCCGCCAGTTGTGAAGAGACTGCTGGGATGGAAGAAGTCAGCTGGTGGGTCTGGAGGAGCAGGCGGAGGAGA
GCAGAATGGGCAGGAAGAAAAGTGGTGTGAGAAAGCAGTGAAAAGTCTGGTGAAGAAGCTAAAGAAAACAGGACG
ATTAGATGAGCTTGAGAAAGCCATCACCACTCAAAACTGTAATACTAAATGTGTTACCATACCAAGCACTTGCTC
TGAAATTTGGGGACTGAGTACACCAAATACGATAGATCAGTGGGATACAACAGGCCTTTACAGCTTCTCTGAACA
AACCAGGTCTCTTGATGGTCGTCTCCAGGTATCCCATCGAAAAGGATTGCCACATGTTATATATTGCCGATTATG
GCGCTGGCCTGATCTTCACAGTCATCATGAACTCAAGGCAATTGAAAACTGCGAATATGCTTTTAATCTTAAAAA
GGATGAAGTATGTGTAAACCCTTACCACTATCAGAGAGTTGAGACACCAGTTTTGCCTCCAGTATTAGTGCCCCG
ACACACCGAGATCCTAACAGAACTTCCGCCTCTGGATGACTATACTCACTCCATTCCAGAAAACACTAACTTCCC
AGCAGGAATTGAGCCACAGAGTAATTATATTCCAGAAACGCCACCTCCTGGATATATCAGTGAAGATGGAGAAAC
AAGTGACCAACAGTTGAATCAAAGTATGGACACAGGCTCTCCAGCAGAACTATCTCCTACTACTCTTTCCCCTGT
TAATCATAGCTTGGATTTACAGCCAGTTACTTACTCAGAACCTGCATTTTGGTGTTCGATAGCATATTATGAATT
AAATCAGAGGGTTGGAGAAACCTTCCATGCATCACAGCCCTCACTCACTGTAGATGGCTTTACAGACCCATCAAA
TTCAGAGAGGTTCTGCTTAGGTTTACTCTCCAATGTTAACCGAAATGCCACGGTAGAAATGACAAGAAGGCATAT
AGGAAGAGGAGTGCGCTTATACTACXATAGGTGGGGAAGTTTTTGCTGAGTGCCTAAGTGATAGTGCAATCTTTG
TGCAGAGCCCCAATTGTAATCAGAGATATGGCTGGCACCCTGCAACAGTGTGTAAAATTCCACCAGGCTGTAATC
TGAAGATCTTCAACAACCAGGAATTTGCTGCTCTTCTGGCTCAGTCTGTTAATCAGGGTTTTGAAGCCGTCTATC
AGCTAACTAGAATGTGCACCATAAGAATGAGTTTTGTGAAAGGGTGGGGAGCAGAATACCGAAGGCAGACGGTAA
CAAGTACTCCTTGCTGGATTGAACTTCATCTGAATGGACCTCTACAGTGGTTGGACAAAGTATTAACTCAGATGG
GATCCCCTTCAGTGCGTTGCTCAAGCATGTCATAAAGCTTCACCAATCAAGTCCCATGAAAAGACTTAATGTAAC
AACTCTTCTGTCATAGCATTGTGTGTGGTCCCTATGGACTGTTTACTATCCAAAAGTTCAAGAGAGAAAACAGCA
CTTGAGGTCTCATCAATTAAAGCACCTTGTGGAATCTGTTTCCTATATTTGAATATTAGATGGGAAAATTAGTGT
CTAGAAATACTCTCCCATTAAAGAGGAAGAGAAGATTTTAAAGACTTAATGATGTCTTATTGGGCATAAAACTGA
GTGTCCCAAAGGTTTATTAATAACAGTAGTAGTTATGTGTACAGGTAATGTATCATGATCCAGTATCACAGTATT
GTGCTGTTTATATACATTTTTAGTTTGCATAGATGAGGTGTGTGTGTGCGCTGCTTCTTGATCTAGGCAAACCTT
TATAAAGTTGCAGTACCTAATCTGTTATTCCCACTTCTCTGTTATTTTTGTGTGTCTTTTTTAATATATAATATA
TATCAAGATTTTCAAATTATTTAGAAGCAGATTTTCCTGTAGAAAAACTAATTTTTCTGCCTTTTACCAAAAATA
AACTCTTGGGG
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FIGURE 5067

TCCTCTTTCCCTAAGCAGCCTGAGGGTTGACTGGATTGGTGAGGCCCGTGTGGCTACTTCTGTGGAAGCAGTGCT
GTAGTTACTGGAAGATAAAAGGGAAAGCAAGCCCTTGGTGGGGGAAAGTATGGCTGCGATGATGGCATTTCTTAG
GACACCTTTGGATTAATAATGAAAACAACTACTCTCTGAGCAGCTGTTCGAATCATCTGATATTTATACTGAATG
AGTTACTGTAAGTACGTATTGACAGAATTACACTGTACTTTCCTCTAGGTGATCTGTGAAA**ATG**GTTCGCTATTC
ACTTGACCCGGAGAACCCCACGAAATCATGCAAATCAAGAGGTTCCAATCTTCGTGTTCACTTTAAGAACACTCG
TGAAACTGCTCAGGCCATCAAGGGTATGCATATACGAAAAGCCACGAAGTATCTGAAAGATGTCACTTTACAGAA
ACAGTGTGTACCATTCCGACGTTACAATGGTGGAGTTGGCAGGTGTGCGCAGGCCAAGCAATGGGGCTGGACACA
AGGTCGGTGGCCCAAAAAGAGTGCTGAATTTTTGCTGCACATGCTTAAAAACGCAGAGAGTAATGCTGAACTTAA
GGGTTTAGATGTAGATTCTCTGGTCATTGAGCATATCCAAGTGAACAAAGCACCTAAGATGCGCCGCCGGACCTA
CAGAGCTCATGGTCGGATTAACCCATACATGAGCTCTCCCTGCCACATTGAGATGATCCTTACGGAAAAGGAACA
GATTGTTCCTAAACCAGAAGAGGAGGTTGCCCAGAAGAAAAAGATATCCCAGAAGAAACTGAAGAAACAAAAACT
TATGGCACGGGAG**TAA**ATTCAGCATTAAAATAAATGTAATTAAAAGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5068

MVRYSLDPENPTKSCKSRGSNLRVHFKNTRETAQAIKGMHIRKATKYLKDVTLQKQCVPFRRYNGGVGRCAQAKQ
WGWTQGRWPKKSAEFLLHMLKNAESNAELKGLDVDSLVIEHIQVNKAPKMRRRTYRAHGRINPYMSSPCHIEMIL
TEKEQIVPKPEEEVAQKKKISQKKLKKQKLMARE

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FIGURE 5069

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GCTGAGCATCGCCAGGGCGGGCGGCAGGGCGCGGCCTCTCCGCCGGGTGTACCTCCTGTCGCGGCGCGAGACCTC
TGGTGAAAGAAAAGATGTTGTCCCGGTTAAGAGTAGTTTCCACCACTTGTACTTTGGCATGTCGACATTTGCACA
TAAAAGAAAAAGGCAAGCCACTTATGCTGAACCCAAGAACAAACAAGGGAATGGCATTTACTTTACAAGAACGAC
AAATGCTTGGTCTTCAAGGACTTCTACCTCCCAAAATAGAGACACAAGATATTCAAGCCTTACGATTTCATAGAA
ACTTGAAGAAAATGACTAGCCCTTTGGAAAAATATATCTACATAATGGGAATACAAGAAAGAAATGAGAAATTGT
TTTATAGAATACTGCAAGATGACATTGAGAGTTTAATGCCAATTGTATATACACCGACGGTTGGTCTTGCCTGCT
CCCAGTATGGACACATCTTTAGAAGACCTAAGGGATTATTTATTTCGATCTCAGACAGAGGTCATGTTAGATCAA
TTGTGGATAACTGGCCAGAAAATCATGTTAAGGCTGTTGTAGTGACTGATGGAGAGAGAATTCTGGGTCTTGGAG
ATCTGGGTGTCTATGGAATGGGAATTCCAGTAGGAAAACTTTGTTTGTATACAGCTTGTGCAGGAATACGGCCTG
ATAGATGCCTGCCAGTGTGTATTGATGTGGGAACTGATAATATCGCACTCTTAAAAGACCCATTTTACATGGGCT
TGTACCAGAAACGAGATCGCACACAACAGTATGATGACCTGATTGATGAGTTTATGAAAGCTATTACTGACAGAT
ATGGCCGGAACACACTCATTCAGTTCGAAGACTTTGGAAATCATAATGCATTCAGGTTCTTGAGAAAGTACCGAG
AAAAATATTGTACTTTCAATGATGATATTCAAGGGACAGCTGCAGTAGCTCTAGCAGGTCTTCTTGCAGCACAAA
AAGTTATTAGTAAACCAATCTCCGAACACAAAATCTTATTCCTTGGAGCAGGAGAGGCTGCTCTTGGAATTGCAA
ATCTTATAGTTATGTCTATGGTAGAAAATGGCCTGTCAGAACAAGAGGCACAAAAGAAAATCTGGATGTTTGACA
AGTATGGTTTATTAGTTAAGGGACGGAAAGCAAAAATAGATAGTTATCAGGAACCATTTACTCACTCAGCCCCAG
AGAGCATACCTGATACTTTTGAAGATGCAGTGAATATACTGAAGCCTTCAACTATTATTGGAGTTGCAGGTGCTG
GCCGTCTTTTCACTCCTGATGTAATCAGAGCCATGGCCTCTATCAATGAAAGGCCTGTAATATTTGCATTAAGTA
ATCCTACAGCACAGGCAGAGTGCACGGCTGAAGAAGCATATACACTTACAGAGGGCAGGTGTTTGTTTGCCAGTG
GCAGTCCATTTGGGCCAGTGAAACTTACAGATGGGCGAGTCTTTACACCAGGTCAAGGAAACAATGTTTATATTT
TTCCAGGTGTGGCTTTAGCTGTTATTCTCTGTAACACCCGGCATATTAGTGACAGTGTTTTCCTAGAAGCTGCAA
AGGCCCTGACAAGCCAATTGACAGATGAAGAGCTAGCCCAAGGGAGACTTTACCCACCGCTTGCTAATATTCAGG
AAGTTTCTATTAACATTGCTATTAAAGTTACAGAATACCTATATGCTAATAAAATGGCTTTCCGATACCCAGAAC
CTGAAGACAAGGCCAAATATGTTAAAGAAAGAACATGGCGGAGTGAATATGATTCCCTGCTGCCAGATGTGTATG
AATGGCCAGAATCTGCATCAAGCCCTCCTGTGATAACAGAATAGAAGCACTCCCCTGATAAATACTTTCTGTGCT
CCAGGGAACCCCTTTTTTCAGACAAGAAGAGATAATGTCTTCAGTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 5070

MLSRLRVVSTTCTLACRHLHIKEKGKPLMLNPRTNKGMAFTLQERQMLGLQGLLPPKIETQDIQALRFHRNLKKM
TSPLEKYIYIMGIQERNEKLFYRILQDDIESLMPIVYTPTVGLACSQYGHIFRRPKGLFISISDRGHVRSIVDNW
PENHVKAVVVTDGERILGLGDLGVYGMGIPVGKLCLYTACAGIRPDRCLPVCIDVGTDNIALLKDPFYMGLYQKR
DRTQQYDDLIDEFMKAITDRYGRNTLIQFEDFGNHNAFRFLRKYREKYCTFNDDIQGTAAVALAGLLAAQKVISK
PISEHKILFLGAGEAALGIANLIVMSMVENGLSEQEAQKKIWMFDKYGLLVKGRKAKIDSYQEPFTHSAPESIPD
TFEDAVNILKPSTIIGVAGAGRLFTPDVIRAMASINERPVIFALSNPTAQAECTAEEAYTLTEGRCLFASGSPFG
PVKLTDGRVFTPGQGNNVYIFPGVALAVILCNTRHISDSVFLEAAKALTSQLTDEELAQGRLYPPLANIQEVSIN
IAIKVTEYLYANKMAFRYPEPEDKAKYVKERTWRSEYDSLLPDVYEWPESASSPPVITE

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FIGURE 5071

GCTAGGGCGCGGCGGGCGGTTTGAATTTTGCTTACAGAGTCCCGTCTCACCATCCTGGGCTTCCAACGGAGACTG
CGGTATCCGCAGCTGGAGACCCAGCGGCGAGTAGCCTTTTGCTCCCGGACGGACTTGAGGTTGGAGTCTGTGTGT
TGGGGACCCTGCCTTTGGAAGCGCCCGAGAGGCTTAAAGGATGGCCTCGTCAGATCTGGAACAATTATGCTCTCA
TGTTAATGAAAAGATTGGCAATATTAAGAAAACCTTATCATTAAGAAACTGTGGCCAGGAACCTACCTTGAAAAC
TGTATTAAATAAAATAGGAGATGAGATCATTGTAATAAATGAACTTCTAAATAAATTGGAATTGGAAATTCAGTA
TCAAGAACAAACCAACAATTCACTCAAGGAACTCTGTGAATCTCTTGAAGAAGATTACAAAGACATAGAACATCT
TAAAGAAAACGTTCCTTCCCATTTGCCTCAAGTAACAGTAACCCAGAGCTGTGTTAAGGGATCAGATCTTGATCC
TGAAGAACCAATCAAAGTTGAAGAACCTGAACCCGTAAGAAGCCTCCCAAAGAGCAAAGAAGTATTAAGGAAAT
GCCATTTATAACTTGTGATGAGTTCAATGGTGTTCCTTCGTACATGAAATCCCGCTTAACCTATAATCAAATTAA
TGATGTTATTAAAGAAATCAACAAGGCAGTAATTAGTAAATATAAAATCCTACATCAGCCAAAAAAGTCTATGAA
TTCTGTGACCAGAAATCTCTATCACAGATTTATTGATGAAGAAACGAAGGATACCAAAGGTCGTTATTTTATAGT
GGAAGCTGACATAAAGGAGTTCACAACTTTGAAAGCTGACAAGAAGTTTCACGTGTTACTGAATATTTTACGACA
CTGCCGGAGGCTATCAGAGGTCCGAGGGGGAGGACTTACTCGTTATGTTATAACCTGAGTCCCTTGTGAACTTTT
GAACATACCAACAGGGTATAGAGTATAGAGGCTATTTCTATAATTTTCTTATATATAATTTTTTTAACTTTTAAT
CTTTTTTGTTTCCTTTTTTTTTTTTTTGAGACAGGATCTTGCTTTGTCACCCAGGGGCTTGCTTTGTCACGCAGG
CTAGAGTGCAGTGGCGCAAACATGGCTCACTGCAGCCTCAACCTCCCAGGCTCAAGTGATCCTCCCACCTCAGCC
CCCTGAATGGCTGGGACTACAAGCGTGCGCCACCATGCCTGGCTAATTTTTGTATTTTTTGGAGAGATGGGGTTT
CACCATGTTGCCTAGGCTGGTCTTGAGCTCCTGAGCTCAAACAATCCACCCTCCTCAGCCTCCCAAAGTGCTGGG
ATTACAGGCTTGAGCCACCACACCTGACCTATTCTTGTTTCTTATAAAAATAAAACTTTTTTGGATAAAGCTTAT
TTCTTGTTTTTTTCTTTTTCTTTTTTTTTTTTTTGAGACAGTCTCGCTCTTTCACCCAGGCCGGACTGCAGCGG
CGCTATCTCGGCTCACTGCAAACTCTGCCTCCCAGGTTCACGCCATCCTCCTGCCTCAGCTACTCAGGAGAATTG
CTTGAACCTAGGAGGTGGAGGTTGCAGTGAGCCGAGATCGTGCCACTGCACTCCAGTCTGGGCAACAGAGCGAGA
CTCCATCTCAGAAAAAAAGAAAAAAAGACTGGGTACAGATGTGATATTGGAAGAAAAAGATCAAGCTGATGAGGT
TAGGATACCCAGGCCCTTTGGACTTAAAGATCACTAGTGTCTAAATTCCATCGATGGCATTTCAGTCTATAGGTA
AACTTCCTGGAAGCTGGATTTGGAGACAGTTTATCATCTGATTATTGGGCTTTCGTATAGGTCCTTAGGGAGCAG
CTTACCTGAAATGCATTTAGTGTACACCAGTCTGTAAACTTCAACCTGTAATGAAAGTGTAATAAATGTACATTG
AGTTGATGTGATAATGTGATATAATAAGAAATATATATTTGATCTTCCTATCTAGTTCCTTGTTCAGAGCTCCTA
AAACCCTTGTAATTTCCAAAGTGATGGAGTACATCTTTTGTTCTAGTATTGGTCTTTGACCCCAGTTCCTGACA
CAAAGCTCCTAAATTCCTTTAAATTTCCCAGTGATAGGAGAATTTTTTGTTCTAATGAGGTCACTCTTGATGGGC
ACCTGGATAACTCAGGATGGGGGCTGCTCACAAAGACCACATCATGATTGGAAGTTTCAAACTTTCAGTCTCCCA
CCTCCAGAGAGGGGAGAGGGGCTGGAGATTTGTGTCAATAATCCATCAGGCCTATGTCAACAAGACATAATCCGT
TAACTATGGAGTTCAGGGAGCTTCAGGGTTGGCAAACATTTTGATGTGCCAGGAAGGTGACGCACTCCAGCTTTA
TGAAGTCAGCAAGTCCTGTGCTCAGGATGCTTCTGGACCTTGCCCCAGGTACCCCTTCATGTGGCTGTTGTTCAT
CTGTATCCTTTGTAGTAGCCTTAAAATAAACTGTTAAACAC

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FIGURE 5072

CCGACATGTTGAGTCATAAGACGCGTCGGTGTTGCAGTCTGTGTCCTTGGAGGTGACCAGGGCCACTGCAGGC**AT**
GGTGCTAGCAGAGCTGTACGTCTCTGACCGAGAGGGAAGCGATGCCACGGGAGATGGAACCAAGGAGAAACCATT
TAAAACAGGTCTAAAGGCTTTGATGACAGTAGGGAAAGAACCATTTCCTACCATTTACGTAGATTCACAAAAAGA
AAATGAGAGGTGGAATGTTATTTCTAAATCACAGTTGAAGAACATTAAAAAGATGTGGCATAGGGAACAAATGAA
GAGTGAATCCCGGGAAAAGAAAGAGGCAGAAGATAGTTTACGAAGAGAAAAGAACCTGGAAGAAGCAAAGAAGAT
TACCATTAAAAATGATCCAAGTCTCCCAGAGCCAAAATGTGTGAAGATTGGTGCGTTAGAAGGATATAGAGGCCA
AAGAGTAAAGGTGTTTGGCTGGGTCCACAGGCTGCGCAGGCAAGGAAAGAATTTAATGTTTCTGGTGTTGCGAGA
TGGTACAGGTTATCTTCAGTGTGTCTTGGCGGATGAGTTGTGTCAGTGCTACAATGGAGTTCTCTTGTCCACGGA
GAGCAGTGTTGCAGTGTATGGAATGCTAAATCTTACCCCAAAGGGCAAGCAGGCTCCAGGTGGCCATGAGCTGAG
TTGTGACTTCTGGGAACTAATTGGGTTGGCCCCTGCTGGAGGAGCTGACAACCTGATCAATGAGGAGTCTGACGT
TGATGTCCAGCTCAACAACAGACACATGATGATCCGAGGAGAAAACATGTCCAAAATCCTAAAAGCACGATCCAT
GGTCACCAGGTGCTTTAGAGATCACTTCTTTGATAGGGGGTACTATGAAGTTACTCCTCCAACATTAGTGCAAAC
ACAAGTAGAAGGTGGTGCCACACTCTTCAAGCTTGACTATTTTGGGGAAGAGGCATTTTTGACTCAATCCTCTCA
GTTGTACTTGGAGACCTGCCTCCCAGCCCTGGGAGATGTTTTTTGTATTGCTCAGTCATACCGGGCAGAGCAGTC
CAGAACACGAAGGCACCTGGCTGAGTACACTCACGTGGAAGCTGAGTGTCCTTTCCTGACTTTTGACGACCTCCT
GAACCGGTTGGAGGACTTGGTTTGTGATGTGGTAGATCGAATATTGAAGTCACCTGCAGGGAGCATAGTGCATGA
GCTCAACCCGAACTTTCAGCCCCCCAAACGGCCTTTCAAACGGATGAACTATTCAGATGCTATCGTTTGGCTAAA
AGAACATGATGTAAAGAAAGAAGATGGAACTTTCTATGAATTTGGAGAAGATATCCCAGAAGCTCCTGAGAGACT
GATGACAGACACCATTAATGAACCAATCTTGCTGTGTCGATTTCCTGTGGAGATCAAGTCCTTCTACATGCAGCG
ATGTCCTGAGGATTCCCGTCTTACTGAATCTGTCGACGTGTTGATGCCCAATGTTGGTGAGATTGTGGGAGGCTC
AATGCGTATCTTTGATAGTGAAGAAATACTGGCAGGTTATAAAAGGGAAGGGATTGACCCCACTCCCTATTACTG
GTATACGGATCAGAGAAAATACGGTACATGTCCCCATGGAGGATATGGCTTGGGCTTGGAACGATTCTTAACGTG
GATTCTGAATAGGTATCACATCCGAGACGTGTGCTTATACCCTCGATTTGTCCAGCGTTGCACGCCA**TAA**CCATT
TTCTCCAGAAGCGTGGAGGAAAGATTATGAAAGGAACAGGCTCTTTAAAAAAGAAAACAAAAAGCCAGAATCTTC
CTTTTTTTTGTTTCATTGGGGTTTCTCTTTCTGTTTTTCTTTCTACTACCATAAAAACTATCTCAAATCACCTGA
ACATCAAGTGATATTAAGGTTGTCATCTTAAGAAAAAATATCCATTTTTTTCTTAAGTTCGGGAAACAAAGTTCG
GGGAAAATACCTGGCATGAAACTGTAGTTAGGGATACATTTCAGCATTTTACTCACTTTATCCAAGTTATTCATT
TTATTCAAGTTATATGTATGTATAATTCAACAATTTTAGATTATGGTGTAAGATACTCCAGTAACTTATCTTTCT
GTCCTTTTAAGTGTACCTGGAATTCTTTGATTTATTTTATTGCATCAATGAATTAAAACAAAAATCTTGGGGGAA
GAAATTGGCAATATCGTATAAAAATCTGCTCATATTAGAACACAGTATAATTCAGCAGTAAACACTAGAATCAAA
TGAATAGCCTTTTGTATCAGTTATTAATCTTTTCTAACTCTGCTTAGCTGCTAATAATCCTGAGGCATAGAAATT
GAAGAATTTGTAAAAATAGAATTGCCTTAAAGGATTTGAAGTAAGAACATAATTTTGGGGAGAGTTTTTTAGTGA
TTCACAGTATCCCTCTTAGCATTAATTTAAGGTAAAGAGGCAGATTGATTTTCCCTCTTTCCTGGTAATTCCTAA
GTAATTAAGAATAAATAAGTTCCAAAAGAAATTGTAGCTGGAATCTTAATAACAATTGTGAGTGGCTGTTTGAGT
TGCCCCCACCATGTCCTTAGATCTAATCTGTGCTACCTTATTAACTCACAGCAGGCTTACTGAATGGCTTCATTT
CAGATTTAGTTGATTTCTCCACCAAATGCATGTCATGTATTCTCAATAGGCTGTATTCCCAGCAGTCAATAAATG
AACACCCGTAAAAA

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FIGURE 5073

MVLAELYVSDREGSDATGDGTKEKPFKTGLKALMTVGKEPFPTIYVDSQKENERWNVISKSQLKNIKKMWHREQM
KSESREKKEAEDSLRREKNLEEAKKITIKNDPSLPEPKCVKIGALEGYRGQRVKVFGWVHRLRRQGKNLMFLVLR
DGTGYLQCVLADELCQCYNGVLLSTESSVAVYGMLNLTPKGKQAPGGHELSCDFWELIGLAPAGGADNLINEESD
VDVQLNNRHMMIRGENMSKILKARSMVTRCFRDHFFDRGYYEVTPPTLVQTQVEGGATLFKLDYFGEEAFLTQSS
QLYLETCLPALGDVFCIAQSYRAEQSRTRRHLAEYTHVEAECPFLTFDDLLNRLEDLVCDVVDRILKSPAGSIVH
ELNPNFQPPKRPFKRMNYSDAIVWLKEHDVKKEDGTFYEFGEDIPEAPERLMTDTINEPILLCRFPVEIKSFYMQ
RCPEDSRLTESVDVLMPNVGEIVGGSMRIFDSEEILAGYKREGIDPTPYYWYTDQRKYGTCPHGGYGLGLERFLT
WILNRYHIRDVCLYPRFVQRCTP

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FIGURE 5074

CGGCCAGCGACGCGGTTCACCTCCTGCTGTCCTCGCCCTCGCCCCGGCGAGCTGCCCCCGACGCGAGATGTCTTA
TTTACCAACAAATCCACCAGGGAGCATTCTTATTTGCTGGCTCGGCGTCTCTCTCAGCAGTCACCGGAGTGCCGG
AGGGGGAAGCGCGATTTACGGAAGACTATTACCCAGAAGAAAAGATGTTTGTTTTTCACAAGCCAAAGATGTACC
GAAGTATAGAGGGCTACTGTATTTGCAGAGCTAAGTCCTCCAGTTCTCGATTCACTGACAGTAAACGCTATGAAA
AGGACTTCCAGAGCTGTTTGGATTGCATGAGACTCGTTCAGGAGACATCTGCAATGCCTGTGTCCTGCTTGTGAA
AAGATGGAAGAAGTTGCCAGCAGGATCAAAAAAAAAAACTGGAATCATGTGGTAGATGCAAGGGTTGGACCCAGT
CTAAAGACTACATTGAAACCAAAGAAAGTGAAAACTCTATCTGGGAACAGGATAAAAAGCAACCAGATCAGTAAA
CTGCAGAAGGAATTTAAACGTCATAATTCTGATGCTCACAATACCACCTCAAGTGCCTCCCCAGCTCCATCTCCT
CGTTACAGTAACCAGTCAGATGACGGCTCAGATACAGAGATGGCTTCTGGTTCTAACAGAACACCAGTTTTTTCC
TTTTTAGATCTCACATACTGGAAAAGACAGAAGATATGTTGTGGGATCAACTATAAAGGCCGTTTGGGGAAGTC
CTCATTGACACACATCCCTTCAAGCCTTGCTGCAGCAATAAGAAAGCAGCTGCCGAGAAGCCAGAGGAGCAGGGG
CCAGAGCCTCTGCCCATCTCCACTCAGGAGTGGTGACTGAGGTTTTTATGTAGAAGGGGAACAAAAAAAATCTGA
ATTTTGAAAAGACCACAAAGCAGCAAACTGACCCTCTTTTTTTTTTTTTTTTTTTTTTTTTGAGACGGAGTTT
TGCTCTTGTTACCCAGGCAGGAGTGCAGTGGCGTGATCTTGGCTCACTGCAACTTCCGTCTCCCGGGTTCAAGTG
ATTCTCCTGCCTTAGCCTCCCAAGTAGCTGGGTTTATATGTGCCCGCCACCAGACCCGGCTAATATTTTAGTTTT
AGTAGAGACGGGGTTTCACCACATTGGCCAGGCTGGTCTCAAATGACCCTCTTATTTTTAACTTGGATACCTGCT
ATTCTGCCAAAAGACAATTTCTACAGTAGTTTTGAATGGGTTGATATCCCCTAGTCCCACAAACTCTGAAGCCAG
TGTCCAGCTTACTAAAAAAAGAGTGGTACATAATATTTAAGATGCTGAGTATTTCATAGGAAAGATGAATGCTGC
TGTAAAGTACTCTTTAAGTCTTTTTTTTTTTTAATCCCCTTCTAATGAATGAAACTAGGGGAATTTCAGGGGACA
GAGATGGGATTTGTTGTATGATAAACTGTATGTAGTTTTTAGTCTTTCTGTATTGAGATGCAGTGGTTGGGGCAT
TTTTAAGATGGCTGGCTACTTGTTTTCCCTCATGATAATAAATTTGTCATAACTCAGTAACATGAACTTGCCCCT
AGAGGTAGTTGTTAATGATTTTGAAATATTAAGGTCTTGCCAAGCTTGTGATGATTCAAACCTGTACTACTGATT
ATTAAGCAGGACAGACTGAGCTTTCTGTTGCAAATACCTTGGAGGAGAAAGTAACTTCTAAATATACAGAGAGGT
AACTTGACTATATATGTTGCATCCTGTGCCTCCCTTCATATTAATATTTGATAAAGATTTTAATTTTTGTAAAAC
TTCTAAAGCAGAATCAAAGCTCCTCTTGGGGAAATGGCAAGTCTTTAGGACAGGCGAGACCCTGTATGAATAGTA
CCAAAGCATTACCGCATGGTAGAGAACACACTCGATTAAAAATGTTAAGCTATCTGAAAAATAAAATGTACAAGT
CCTCAGGATGGCACAAAACAAAGGTTAATGCTTCTTGGGGCACATTTCTTAGAGGGCTTGCTGAGTGTGTAAATA
TAATCGACTTTTGTTTGTGTTCTGTGACTTCATTGAAAATCTTTACAATTCAGTTTCAGCTCTGGATTACTTCAG
TTGACCTTTGTGAAGGTTTTTATCTGTGTAGAATGGGTGTTTGACTTGTTTTAGCCTATTAAGTTTTTATTTTCT
TTCACTCTGTATTAAAAGTAAAACTTACTAAAAGAAAAGAGGTTTGTGTTCACATTAAATGGTTTTGGTTTGGCT
TCTTTTAGTCAGGCTTTCTGAACATTGAGATATCCTGAACTTAGAGCTCTTCAATCCTAAGATTTTCATGAAAAG
CCTCTCACTTGAACCTAAACCAGAGTACTCTTACTGCCTCTTTTCTAAATGTTCAGGAAAAGCATCGCCAGTTCG
GTCTTTTCAGAATGAGGGAGAAACATTTGCCTGCCTTGTAATAACAAGACTCAGTGCTCATTTTTAAACTGCAT
TTTAAAAATTGGATAGTATAATAACAATAAGGAGTAAGCCACCTTTTATAGGCACCCTGTAGTTTTATAGTTCTT
AATCTAAACATTTTATATTTCCTTCTTTTGGAAAAAACCTACATGCTACAAGCCACCATATGCACAGACTATACA
GCGAGTTGAGTTGGCTTCTCCCACAGTCTTTGAGGCGAATTACAAAAGTCCAGCCATTATCATCCTCCTGAGTTA
TTTTGAAATGATTTTTTTGTACATTTTGGCTGCAGTATTGGTGGTAGAATATACTATAATATGGATCATCTCTAC
TTCTGTATTTATTTATTTATTACTAGACCTCAACCACAGTCTTCTTTTTCCCCTTCCACCTCTCTTTGCCTGTAG
GATGTACTGTATGTAGTCATGCACTTTGTATTAATATATTAGAAATCTACAGATCTGTTTGTACTTTTTATACT
GTTGGATACTTATAATCAAAACTTTTACTAGGGTATTGAATAAATCTAGTCTTATTAGAAAATAAAAAAAAAGAA
AGAAA

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FIGURE 5075

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GCTGTCCTCGCCCTCGCCCCGGCGAGCTGCCCCCGACGCGAGATGTCTTATTTACCAACAAATCCACCAGGGAGC
ATTCTTATTTGCTGGCTCGGCGTCTCTCTCAGCAGTCACCGGAGTGCCGGAGGGGGAAGCGCGATTTACGGAAGA
CTATTACCCAGAAGAAAAGATGTTTGTTTTTCACAAGCCAAAGATGTACCGAAGTATAGAGGGCTACTGTATTTG
CAGAGCTAAGTCCTCCAGTTCTCGATTCACTGACAGTAAACGCTATGAAAAGGACTTCCAGAGCTGTTTGGATTG
CATGAGACTCGTTCAGGAGACATCTGCAATGCCTGTGTCCTGCTTGTGAAAAGATGGAAGAAGTTGCCAGCAGGA
TCAAAAAAAAAAAACTGGAATCATGTGGTAGATGCAAGGGTTGGACCCAGTCTAAAGACTACATTGAAACCAAAGA
AAGTGAAAACTCTATCTGGGAACAGGATAAAAAGCAACCAGATCAGTAAACTGCAGAAGGAATTTAAACGTCATA
ATTCTGATGCTCACAATACCACCTCAAGTGCCTCCCCAGCTCCATCTCCTCGTTACAGTAACCAGTCAGATGACG
GCTCAGATACAGAGATGGCTTCTGGTTCTAACAGAACACCAGTTTTTTCCTTTTTAGATCTCACATACTGGCCTC
ATTGACACACATCCCTTCAAGCCTTGCTGCAGCAAT
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FIGURE 5076

ACTTCTGCCCTTTTGGCTCTCTGACCAGCACCATGGTGGTGGGCAAGAACAAGCACCTTACGAAAGGCGGCAAAA
AGGGAGCCAAGAAGAAAGTGGTTGATCCATTTTCTAAGAAAGATTGGTTTGACGCGAAAGCACCTACTACGTTCA
ATATAAGAAATATTGGAAAGACGCTCATCACCAGGACCCAGGGAACCAAAATTGCATCTGATGGTCTCAAGGGTC
GTGTGTTTGAAGTGAGTCTTGCTGATTTGCAGAATGATGAAGTTGCATTTAGAAAATTCAGCTGATTACTGAAGA
TGTTCAGGGCAAAAACTGCCTAACTTCCATGGC**ATG**GATCTTACCCATGACAAAATGTGTTCCATGGTCAAAAAA
TGGCAGACAATGATTGAAGCTCATGTTGATGTCAAGACTACCGATGGTTACTTGCTTCGTCTTTTCTGTGTTGGT
TTTACTAAAAAACGCAGCAATCAGATACGGAAGACCTCTTATGCTCAGCAACAACAGGTCCGCCAAATCCGGAAG
AAGATGATGGAAATCATGACTCGAGAGGTGCAGACAAATGACGTGAAAGAAGTGGTCAATAAATTGATTCCAGAC
AGCATTGGAAAAGACATAGAAAGACTTGCCAATCTATTTATCCTCTCTATGATGTCTTCGTTAGAAAAGTAAAA
ATGTTGAAGAAGCCCAAGTTTGAACTGGGAAAGCTCATGGAGCTTCATGGTGAAGGCAGTAGTTCTGGAAAAGCT
GCTGGGGACGAGACAGGTGCTAAAGTTGAA**TGA**GCTGATGGATATGAACCACCAGTCCAAGAATCTGTTTAAAGT
TCAGACTTCAAATAGTGGCAAATAAAAAGTGCTATTTGT

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FIGURE 5077

MDLTHDKMCSMVKKWQTMIEAHVDVKTTDGYLLRLFCVGFTKKRSNQIRKTSYAQQQQVRQIRKKMMEIMTREVQ
TNDVKEVVNKLIPDSIGKDIEKTCQSIYPLYDVFVRKVKMLKKPKFELGKLMELHGEGSSSGKAAGDETGAKVE

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FIGURE 5078

<u>ATG</u>AAAGAGGCCATCGGATGCGAGGACATCAGCCCAGTAACTTTGAGGGAAGAAGGTTTTCCTTCCCCTGCTGCC
TATGCCGTGGGGTTTGAGCACGTCTCTCGGGGGGAAGTCATGGCCCATAGCCAGCTTGCTGCAATGGAAGCGATG
CTTACAGTAAGGCGAGTTCCCTGGACACGATATATGAGAGTGAGGACACAGTGCCCAGAGTTGGGAGTTGACCGA
ACCTACCTTCAGATGGGATTTCTGCTTGAAAACCAGGAAGCAGAACTCAGATGTGAATTACGCTTTCTAGACATT
CAACTGCTATCAAAGAATAATTGCCATGCTAAATTATTTATATTTGTGGAGCAAATGACTTTAGGCACTAAGGCT
TTTATCTCTTCCCCTGAGGAACCTTTTGAACTTTGTTTTCTTGAACTCTATGCCATCCAGGCAGGGGGATTAGAA
GAACCTCCTAATCTGAGTAATTTGAATAAACTGAGGGAAATTGTGGAAAAGAAAGATTACAAGGTGATGAAAAAG
AGAGTAGATAATGAAGAGGGTGTAAAAACTTATAAGGTACTGGAAAGGGCAGCCATGAAATTCCTGACCATGGAA
CCCAAACTGAGAGATGACAGACTTGAAGGATATGGAGAAAAAGATTCAAGTTCTTGGCGGAGAAGGTCATGTTCA
GAAGCAAGTAAGGTAGTGAGAGCGTACTTACAACTTATCGTGTGGAAGCTGCTCAGTGATGAGACTGGGAAAGAT
GAATATGCGTACGCTCTTTCACTCACAGCAAAATCACTAAGCTTCTCTGAGGGTATAGGATACTTTCTTTTCTAT
GGGTCAGTGATGGTCATTACTGGAAGTTCCCATCACTTCCCGGTCCATCTTCCTGTGCTGGAGAACAAACCTAAA
CACGAGGGTTGGGGAAAC<u>TGA</u>

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FIGURE 5079

MKEAIGCEDISPVTLREEGFPSPAAYAVGFEHVSRGEVMAHSQLAAMEAMLTVRRVPWTRYMRVRTQCPELGVDR
TYLQMGFLLENQEAELRCELRFLDIQLLSKNNCHAKLFIFVEQMTLGTKAFISSPEEPFELCFLELYAIQAGGLE
EPPNLSNLNKLREIVEKKDYKVMKKRVDNEEGVKTYKVLERAAMKFLTMEPKLRDDRLEGYGEKDSSSWRRRSCS
EASKVVRAYLQLIVWKLLSDETGKDEYAYALSLTAKSLSFSEGIGYFLFYGSVMVITGSSHHFPVHLPVLENKPK
HEGWGN

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FIGURE 5080

<u>ATG</u>GTCTATGGAATTAAAAAATATGGTCCCTTTGTTGCAGACTTTGCTGATAAACTCAATGAGCAAAACCTTGCC
CAACTAGAAGAGGCGAAGCAGGCTTCCATCCAACAAATCCAGAATGCAATTGATATGGAGAAGTCACAACAGGCA
CTGGTTCAGAAGCGCCATTACCTTTTTGATGTGCAAAGGAATAACATTGCTATGGCTTTGGAAGTTACTTACCGG
GAACGACTGTATAGAGTATATAAGGAAGTAAAGAATCGCCTGGACTATCATATATCTGTGCAGAACATGATGTGT
<u>TGA</u>

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FIGURE 5081

MVYGIKKYGPFVADFADKLNEQNLAQLEEAKQASIQQIQNAIDMEKSQQALVQKRHYLFDVQRNNIAMALEVTYR
ERLYRVYKEVKNRLDYHISVQNMMC

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FIGURE 5082

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ACGTGGTACGGAACCGGCGCCGCGCTTGCTGCTGGTAACAGGGCCTTGCCTAGTGGGCCTTCCTTCCCAGGTCGC
CCCTCAGTCTCCACTAGAGACAGGACTGACCAGTTGCTCTTCCTTCCAAGAACCTTCGAGATCTGCGGTCTGGGG
TCTGGTTGAAAGATGGCGGCCCTCACTACCCTGTTTAAGTACATAGATGAAAATCAGGATCGCTACATTAAGAAA
CTCGCAAAATGGGTGGCTATCCAGAGTGTGTCTGCGTGGCCGGAGAAGAGAGGCGAAATCAGGAGGATGATGGAA
GTTGCTGCTGCAGATGTTAAGCAGTTGGGGGGCTCTGTGGAACTGGTGGATATCGGAAAACAAAAGCTCCCTGAT
GGCTCGGAGATCCCGCTCCCTCCTATTCTGCTCGGCAGGCTGGGCTCCGACCCACAGAAGAAGACCGTGTGCATT
TACGGGCACCTGGATGTGCAGCCTGCAGCCCTGGAGGACGGCTGGGACAGCGAGCCCTTCACCCTGGTGGAGCGA
GACGGCAAGCTGTATGGGAGAGGTTCGACTGATGATAAGGGCCCGGTGGCCGGCTGGATAAACGCCCTGGAAGCG
TATCAGAAAACAGGCCAGGAGATTCCTGTCAACGTCCGATTCTGCCTCGAAGGCATGGAGGAGTCAGGCTCTGAG
GGCCTAGACGAGCTGATTTTTGCCCGGAAAGACACATTCTTTAAGGATGTGGACTATGTCTGCATTCTGACAAT
TACTGGCTGGGAAAGAAGAAGCCCTGCATCACCTACGGCCTCAGGGGCATTTGCTACTTTTTCATCGAGGTGGAG
TGCAGCAACAAAGACCTCCATTCTGGGGTGTACGGGGGCTCGGTGCATGAGGCCATGACTGATCTCATTTTGCTG
ATGGGCTCTTTGGTGGACAAGAGGGGGAACATCCTGATCCCCGGCATTAACGAGGCCGTGGCCGCCGTCACGGAA
GAGGAGCACAAGCTGTACGACGACATCGACTTTGACATAGAGGAGTTTGCCAAGGATGTGGGGGGCGCAGATCCTC
CTGCACAGCCACAAGAAAGACATCCTCATGCACCGATGGCGGTACCCGTCTCTGTCCCTCCATGGCATCGAAGGC
GCCTTCTCTGGGTCTGGGGCCAAGACCGTGATTCCCAGGAAGGTGGTTGGCAAGTTCTCCATCAGGCTCGTGCCG
AACATGACTCCTGAAGTCGTCGGCGAGCAGGTCACAAGCTACCTAACTAAGAAGTTTGCTGAACTACGCAGCCCC
AATGAGTTCAAGGTGTACATGGGCCACGGTGGGAAGCCCTGGGTCTCCGACTTCAGTCACCCTCATTACCTGGCT
GGGAGAAGAGCCATGAAGACAGTTTTTGGTGTTGAGCCAGACTTGACCAGGGAAGGCGGCAGTATTCCCGTGACC
TTGACCTTTCAGGAGGCCACGGGCAAGAACGTCATGCTGCTGCCTGTGGGGTCAGCGGATGACGGAGCCCACTCC
CAGAATGAAAAGCTCAACAGGTATAACTACATAGAGGGAACCAAGATGCTGGCCGCGTACCTGTATGAGGTCTCC
CAGCTGAAGGACTAGGCCAAGCCCTCTGTGTGCCATCTCCAATGAGAAGGAATCCTGCCCTCACCTCACCCTTTT
CCAACTTGCCCAGGGAAGTGGAGGTTCCCTCTTTCCTTTCCCTCTTGTCAGGTCATCCATGACTTTAGAGAACAG
ACACAAGTGTATCCAGCTGTCCACGGGTGGAGCTACCCGTTGGGCTTATGAGTGACCTGGAGTGACAGCTGAGTC
ACCCTGGGTAAGTTCTCAGAGTGGTCAGGATGGCTTGACCTGCAGAAGATACCCAAGGTCCAAAAGCACAAGGTC
TGCGGAAAGTTCTGGTTGTCGGCCGGGCACCACGGCTCACACCTATAATCGAGCACTTTGGGAGGCCAAGACAGG
AGGATCACTTGAGGCCAGGAGTCTGAGACAAGCCTAGGCAACAAAACAAGACTCTGTCTCTACAAAAAGTTTAAG
AAATGAGCCAGACATGGTGGTGTATGCCTGTAGTCCCAGCCACTCAGAAGGCTGAGGCAGGAGGATCGCTTGAGA
CCAAGAGTTTGAGCCTGCGGTGAGCTGTGAATGCACCACGGCACTCAAGCCTGGGCAATGTAGCAAGATCCTGTC
TCTACAAGAAATTTTTTAAAAATGAGCCAAGTGTGGTGGTGCATGCCTGTAGTTCCAGCTACTCAGGACACTGAC
GTAGGAGGGTTGCTTGAGACTGAGAGTTGGAGGCTGCGATGAGCCATGAATGCCCCACTGCACTCCAGCCTGGGC
GACAGAACGAGACCCCATCTCAAAAAAAATAAGTTCTGGTTGTCATTGAATTGGGATAAACAGAGAGCTTGATGC
TTTCTGCCTTCTGTCTCAGGTGATGCATTGCACATTTGGGATATTTGGAAAGGAAATGAGGAAGAAATTAGGGC
CTCCTCTGATCTCTCGCTATCTGCGGGTCCTGTCCTTTTCTCAAGACCTTCACCATTACTGGCATTTTCCTGTCT
TCTCTTTAGTATGATCCCTCAAAAACCTCACTAACTGGAAGGATGATTTTGTCTCAGTTTGTACTCCTAAATAAAA
AGTAAACATGACACCTCT
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5513/6881
FIGURE 5083A

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AATCTGAGAGAGGCCGAGTGGAGTTCGGTCCTTCTCTGAACACTTTTAGCTGAGAGTACCAGCATCCAACTGGGA
GCGTTGTCATTGCATTTCCACATTCCCAGGAAAGCCCAGGTGCTGGCTGCCAGCTGCTGCGCCCCCCATGTAGAA
GGTGCACCTCCTGGGAGCAGGCACGTCTTTTGGCTCTTCTGACCATGGAGAGATAGGACGGTCCCTGCAGCCCGC
GCGACAGAAAGCTGTGCCGCCACCACCGGCCGCGCCCGTCCTTCGGATGGATCGCAACAGAGAGGCCGAGATGGA
GCTGAGGCGAGGCCCCAGCCCCACCAGGGCCGGCCGGGGCCACGAGGTGGATGGGGACAAGGCTACCTGCCACAC
CTGCTGCATCTGCGGCAAGAGCTTCCCCTTCCAGAGCTCGCTTTCGCAGCACATGCGCAAGCACACGGGCGAGAA
GCCCTACAAGTGTCCCTACTGCGACCACCGGGCTTCCCAGAAGGGCAACCTGAAGATTCACATCCGGAGCCACCG
CACGGGGACTCTGATTCAGGGACACGAGCCGGAGGCGGGCGAGGCGCCGCTGGGTGAGATGCGCGCCTCCGAGGG
CCTGGACGCCTGCGCCAGCCCCACCAAGAGCGCCTCGGCCTGCAACCGGCTGCTGAACGGGGCCTCGCAGGCCGA
CGGCGCCAGGGTCCTGAACGGGGCCTCGCAGGCCGACAGCGGCAGAGTCCTGCTGCGGAGCAGCAAGAAGGGGGC
AGAGGGGTCCGCATGCGCCCCGGGGGAGGCCAAGGCAGCGGTCCAGTGCTCCTTCTGCAAGAGCCAGTTCGAGCG
TAAGAAGGACCTGGAGCTGCACGTGCACCAGGCGCACAAGCCGTTCAAGTGCAGGCTGTGCAGCTACGCGACGCT
GCGGGAGGAGTCGCTGCTGAGCCACATCGAGAGGGACCACATCACCGCGCAGGGGCCCGGCAGCGGCGAGGCCTG
CGTGGAGAACGGCAAGCCCGAGCTGAGCCCCGGGGAGTTCCCGTGCGAGGTGTGTGGCCAGGCCTTCAGCCAGAC
CTGGTTCCTGAAGGCGCACATGAAGAAGCACCGGGGCTCCTTCGACCACGGCTGCCACATCTGCGGCCGTAGGTT
CAAGGAGCCCTGGTTCCTCAAGAACCACATGAAGGCGCACGGCCCCAAGACGGGCAGCAAGAACAGGCCCAAGAG
TGAGCTGGACCCCATCGCCACCATCAACAACGTGGTCCAGGAGGAGGTGATCGTCGCCGGCCTGAGCCTCTACGA
GGTCTGCGCCAAGTGCGGGAACCTGTTTACAAACCTGGACAGCTTGAACGCCCACAATGCCATCCACCGCAGAGT
CGAGGCCAGCCGCACGCGCGCCCCGGCCGAGGAGGGGGCGGAGGGGCCCTCGGACACCAAGCAGTTCTTCCTCCA
GTGCCTGAACCTGAGGCCGTCGGCGGCCGGCGACTCGTGCCCTGGCACGCAGGCCGGACGGCGGGTGGCTGAGCT
GGACCCGGTCAACAGCTACCAGGCCTGGCAGCTGGCCACGCGGGGTAAGGTGGCCGAGCCGGCCGAGTACCTCAA
GTACGGGGCCTGGGACGAGGCGCTGGCCGGGGACGTGGCCTTCGACAAGGACAGGCGCGAGTACGTCCTGGTGAG
CCAGGAGAAGCGCAAGCGTGAGCAGGATGCACCAGCCGCGCAGGGGCCCCCGCGGAAGCGCGCGAGCGGGCCTGG
GGACCCCGCGCCCGCCGGCCACCTCGATCCCCGCTCGGCCGCGCGCCCCAACCGCAGGGCCGCAGCCACCACCGG
CCAGGGCAAGTCCTCCGAGTGCTTCGAGTGCGGCAAGATCTTCCGCACCTATCATCAGATGGTGCTGCACTCACG
CGTGCATCGCCGCGCGCCGCGAGAGGGACAGTGACGGGGACAGGGCGGCGCGGGCCCGCTGCGGATCACTCAG
TGAGGGTGACTCGGCCTCCCAGCCCAGCAGCCCTGGCTCCGCCTGTGCCGCTGCTGACTCCCCGGGCTCTGGCCT
GGCCGACGAGGCTGCCGAAGACAGTGGTGAGGAGGGCGCCCCTGAACCTGCACCAGGGGGACAGCCGCGCCGCTG
CTGCTTTTCCGAAGAGGTGACTTCGACCGAGCTCTCCAGTGGAGACCAGAGTCACAAGATGGGAGATAACGCCTC
GGAAAGAGACACCGGCGAGTCCAAGGCAGGGATCGCAGCTTCTGTGTCCATACTTGAAAACAGTAGCAGAGAGAC
TTCTAGAAGGCAAGAGCAGCACAGATTTTCTATGGACTTAAAGATGCCAGCATTTCACCCCAAGCAGGAGGTGCC
CGTCCCTGGTGATGGTGTGGAGTTCCCTTXCCAGTACGGGAGCGGAGGGCCAGACGGGTCACCCTGCAGAAAAGC
TGTCCGATTTGCACAACAAGGAACACTCTGGGGGAGGGAAGCGGGCGCTGGCCCCAGACCTCATGCCGCTAGATT
TAAGTGCGAGGTCGACGCGGGATGACCCCAGCAATAAGGAGACGGCCTCCTCCCTGCAGGCGGCTTTAGTCGTTC
ACCCGTGTCCTTACTGCAGCCACAAGACCTACTACCCCGAGGTCCTGTGGATGCACAAACGCATCGGCACCGCG
TCAGCTGCAACTCCGTGGCTCCCCCGTGGATTCAGCCCAATGGTTACAAAAGCATCAGAAGCAATTTXGGTTTTC
CTTTCCCGGAGCGGACGCACGGGCCCCCCGCCTGCCCTCGGTGGCAAAGAATGCCAGCCTTTGCTCCTTGCTCXG
GTTCACCCGCACTCAGGTGCCAGGGGGGATGCCGGGGTCCAAAAGTGGCTCTTCTCCCCTGGGAGTGGTCACAAA
AGCCGCTAGCATGCCTAAGAATAAGGAGAGCCATTCCGGAGGTCCCTGCGCTCTGTGGGCGCCCGGCCCTGACGG
GTATCGACAGACCAAACCTTGTCACGGCCAGGAGCCACATGGCGCGGCCACACAGGGGCCCCTGGCCAAGCCCAG
GCAGGAGGCTAGCTCCAAACCGGTGCCTGCCCCGGXGTGGCGGGGGCTTCAGCAGGAGCGCCACCCCTACGCCCA
CCGTCATCGCCCGGGCTGGCGCGCAGCCCTCGGCCAATAGCAAGCCTGTGGAGAAGTTTGGGGTCCCCCCAGCGG
GGGCTGGCTTTGCCCCCACAAATAAGCACAGTGCCCCGGACTCCCTGAAAGCCAAATTCAGTGCTCAGCCTCAGG
GTCCACCTCCTGCAAAGGGCGAAGGGGGCGCTCCTCCTCTACCTCCCCGCGAGCCCCCCTCGAAGGCAGCCCAGG
AGCTGAGGACTCTGGCCACCTGTGCTGCGGGGTCCAGGGGCGACGCGGCCTTGCAGGCCCAGCCCGGCGTGGCTG
GGGCGCCCCCCCGTCCTACACTCCATCAAACAGGXAGCCGGTGGCCGAGGGGCATGAGAAGCGCCTGGACATCCT
CAACAXTCTTTAAGACGTACATTXCCAAAGGACTTTGCGACCCTCTACCAGGGATGGGGTGTCAGCGGCCCTGGG
TTGGAGCACAGAGGGACACTCCGGACGCAGGCCCGGCCAGGAGAGTTCGTCTGCATCGAGTGCGGAAAGAGCTTC
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5514/6881
FIGURE 5083B

CACCAGCCCGGCCACCTCAGGGCCCACATGCGGGCACACTCAGTGGTGTTTGAGTCCGATGGGCCTCGGGGTTCT
GAAGTTCATACCACCTCCGCAGACGCCCCCAAACAAGGGAGAGACCATTCTAACACAGGTACCGTCCAGACAGTG
CCTCTGAGAAAGGGAACCTAAAGGCGTGTTTCCGACGCACCCCAGGTCCCCGTAACGGCCATTAGCAGTACCCTC
ACGATGTCCCAGCAGCCTCCCACCTGTGACCTGGCCGCTCCATGGAAGAACAGCCGGGGAACTCCTGAGCAGACA
CCTCACATCCCGAGCCGCTGCGCTGGAGTGGAAACTGAAGGCAGATGCCTCTCCTTGTTAAACGTTCAGAAATAA
ATGAAGATGCTATATTCTAGAAATACATGTAGATACTATATACGCATTTACGTGCTCATCGTCCATAGTCCCATA
TTTTCTTATAATAAACAGTAGTACTGGCAGGCACAGTAGGGGCACAAGGCATCTGTCTTATTCAAGACAAGTTTG
AGACACTGGAAAAAAGATACTTGTTGTGTGTGTTGGACAGAGTGGCGAGGCTGAGCACTGTCACAGGGGCCTCC
CATGTTAAGAGGGACTGTGGGGATGATGTCAGAACAAGACGTGGTGGATTTGAGGTTGATCGAGTATTAATACTA
CTGCCTCTCCTTGTCTTAGTGGGTATTTAAAATAGTAAATAAGAGAGAGGAAGGAGGTGACGTTCAGGTGCTGTG
GGAAGCAGGCTTGGCGGAGGGGTATGATGATGAGACCCTCATTGTTCACTGGCTCCATCGCACTCCTCCCTGGGG
CCGTGTGCCTGTTCCATTCTTCCCACCATTCGAACTGAGCGAATCTGGCAAAGGAGACACGTCTGTGGGAATGCG
TAGATTCCGCCTCGGAAGAGAGCTAGCGCAACACTAAGAAAAGCAGGCTTCTTGTTTATTCTCAGGACCTTTTTG
TAACAGGGCTACATTCTGCAAACTGCTTACAAAGGAAGACTATACGTCTTAACAAATTATTTAGCCACTGAGTCC
TCCCGATTCGGACCTGTTTTAGTAATGGCAGAAGAATCCCTGAGCAGGTTCAGGTGCCCTAGATGACTAGGGTGC
TGAGCTCTGGCGCCTTCTGTCCCCACTCTTTGCCTCCCCGCCCCTTCCCTGAGCCACCCCAGCAAGTGGGTGTCT
TTTCTCCCTGGGCCTGGTGACCTCCACAGGATGAGTGACTTTGTTCATAAAGGGTGGGGATCACCAGCCCCTTGG
GTGGGGGACGGCTTCATATACCTCTTCCTCAGTAATGCAAATGCGAGTTTTTGTGGTGGGGGTTAAGGCCCATAA
CAAAGGATCTTAAACCATGCAGTGTACGCAATTGAAATGGTATTCCACAGATATAAATATTTTCTTTTCCCATTG
CCGTGACACTATGTGTGATGGTAATATTTCTGAGAGTTTCAGATTTTTGCACATATGATTTTATGCATTATCAAA
AGTTACTGCTGCCTTGAATGAAAATGTTCTGTGAAATTTTTTGCAAAAGCTTTACTAGGTTTTTTTTTAATTGTG
AAATTTTGTAAAGGCAGGAAATGGATTAAAAACGAGCATGCTAAATATATTTTTCAAAAAAGCAATAATTTTACAT
GTACAGAAATTATCCTAACCTTTAATACTGGCGAGAGCAACAGTTTACTTAATACGGTAATGGACTAGTGCAGTT
TTTGTAGACAGTGGGCTTCTGATACAAAGTCTTGTTTAAACACAGACACACACACACAAACACACACACAC
CCTAAAGTGTGGGTTTCCTGTTCTAATGATTTGTTGAATATTATTATATTATTATTATTATTATTATTATTATTG
TTATTGTTATTAGTAATGTTTGGTTCTGGATTCTACTTGTTACTGAGTTTAAATTACTTGACGGTTCAGGTTACT
TTGCAACACTTTCAAACGATGCAATGTAACTGGCTAGCTTATATATATATATATATATATATATATATATATTTT
TTTTTTTTTTTACTTATTTTTTTCTGATATTCTTACACCAGATATGTACGAAAATGATCTGTCCTGTTGGTGTAA
TTAGGAATGTCCATGCAGATACAGTTAAACAACTGTAATTGACTGTTCTGTAAAGTTATTTGGGCAAAGTTGCG
GAGACACATTCCTCTGTCCACCTAAGAAATCAGAAGACTCTTCTGTTGATTTATGTTTAATCATTTCAGTAGTTT
CCCCACAGTGATCATTTCTGCATTTTCTGGCTTTTGTTTTCTTGGCTGAAAGTGAATGGTGACTGTTAGGAATGT
CAGGGACTAGTGACCCAGTCCTGTTTCTCTGTGTTTAGTTATTAAAAAGAAATTCTGTACCCAAAGTG

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FIGURE 5084A

AGACCATCCAAGAAGACAGTGCAGCCACCTCCGAGAGCCTGGATGTGATGGCGTCACAGAAGAGACCCTCCCAGA
GGCACGGATCCAAGTACCTGGCCACAGCAAGTACCATGGACCATGCCAGGCATGGCTTCCTCCCAAGGCACAGAG
ACACGGGCATCCTTGACTCCATCGGGCGCTTCTTTGGCGGTGACAGGGGTGCGCCCAAGCGGGGCTCTGGCAAGG
TGAGCTCTGAGGAGTAGAGGAGTTTTAGTTTAAATGGAAAAAGCAAAGGAGAAATCAGTAGGTGAACTCAGCCAT
TAGAGGAAGAACTGGCACGTAGCCTCTTGCTGTCTAAGGTCTCGTTCCGTGCTGGAGAATGCATATGAGCCCAAG
AGTGTGGGCCTGAGTGGCTGCTTAGGACGTTTTCGTTTAACTCACCCCCTCTTTTCCTCACAAGGGATGGTGGCC
GGGGTGTGGCTCAGGAATGTAAGGACATGCTGAATTCTGGATCTCTAAGGGTGCCTGGACATGGGCGTTGCAGAA
AGAGAGCCACATTCTCAGGGTCTCTGGTGGTGTGTGCTTGCGGACTTGATGACTGATGTTGCCTCTGCAGCCCAC
ACGCTGGGGTTCAACACTGGGTTATGCTCGTTTTTTCCTGGAGTCAGTGCTGCTAGCTTCATGTTGCTCTGCGAC
AATCATAGGATTGAGGTCGAGGAAGACTTTTGAACAAACTCCTCAATTTAAATCCGCCTTGAGCAAACGTTCTCT
GTGGTCTGAGAAGTGGAAGGGGGGAGGGATAAATGAGTGTCTATGAATCAAAGCTTTATTATCTTGTGATTCCAT
TAATTTGCATACAGAGTCTTAGAAGTTTCTTTATTCAAAAGCAAATGTGGATAAAAATGTATTACAAAAAAAAAA
AACTCTGCTATGGGGTCCAGAGTCTAGGAGTGGTTTCTGCAGTTGATTGTCAGTGGAGAACCTGTGGCTGCTGGT
TCATCAAAGCGCTGGTCCCTGAGTGCCATTCAGATTGCAGATGCAGTATTTTACGTGATGTTTAGAGTGTTTGGT
GGTTGTGTAATTTTGGAGAGAAAGAAGTTTTTCCCAAAAAAGTCCCTAGTTTATTGGGTGTTCTCACACAACCTG
TAAGATGAAGCTGTTTTTCTGCCTGTGTGCAGGGCTGATTCTGGAATTCCAGAAGGCCTTGTGGGAGCGTAAAAG
GCTTTTGAATAAAGTGTGGAACAGAGCGCCTCATTCTGATAACATGCAATCATAAAAACCATAGGGCAACTTGGA
GTTAAGGAGTTTCTAGAATTTGCTTTAGTCTCCAACTGCAATTCTTTATTGATCATGAAATTGTTGAAGAGAAAC
ACAAATGTCAGTTTTACCTTTCCTGTGGGCGTGAAAGCACATCGAAGTTTCAGGCAACTGTTAACATCTCTACCA
TCTGTCTGAGTTGAGATTTCAGGTTGTGACACTTGCCGTGACTTATTTGTAAATGACATTTTGTGTGTCTTAGAT
ACTAATGGAATTCATATTCTGGCTAGTTCTTTCAGTGCATTTGTAGACATGTTCTTTTCCTTTGTAGCAGTCCTC
CCTCACCCTGAAATGTTGGTGTTCTAACCGATTTCTAATGCTAATTTCAACTGGAAGCACTTTTTCAAGCCCAGC
TATCAAACCACACCAGACATGTATGGATTCGGGTTGCCCAATAAAGCGTTGCTATTATGTAAGCATCCCTCACGC
ATACAGCATCACCAGTTTTGAAAGCTTGAACTATTCTGCTTACTTCAAGGTACAGAAAAAAAAAATGTACTTAAA
CTGTGCAGAAAAGATGAAATCACTGGATAATATGTATTATAAAATAAGCTTCATGTGAGTGACACTGGTTTAAGT
TGAAATAAAATGGTGAAAGCATTGATATCAATCATTGTGACTTTATCTCAAAACAATATTGACACACATAGATGT
TTTTCTTCCTTTATGGTAAGATTACAGCCTTTATTGTCTTAAATCTCTTATACTCTTCAATATTTTCAAAGAAAA
CATTCTAGTCTCAGAAATAGTCCATCTCTTTGCAAAACAGGGCTGGCCAATTATCAAGGACCCATAAAAATCAAA
ACACTTTCAAAAATTTTAAAAATAAAAATAATTTTCACATGATTGCTTTAGGAATTTTGAAGTATCCATTCTTTT
CACTATGGAGTGTTGAATATAGAAGATTTTTTAATGAACAGGCTTGCCCTTTGATGCCAAAGGCAAAAAATAATA
ATAATAACATTTGCACGTGTGATCACAGAGCAGCTGTGAGGCATCCCGGGGGAGCGCACGCAGTGGGGATGTGAT
TGCTCCACTCAACTATTTTATCACAAAGTGTTGTAAACATGGGAGATGAAAGCTTAACTCTCTCTACACCCAGCT
ACAGACCCGCAATGGCCCTAAAAATCTGGGGTATTCATTGGGTGGGCTGCCATGGAGGAATTTTTGGTTTTGTTT
TTATTTTTATTGTTGTTCTGTTTACAAATCAGGAGAGCCCCTGTTTTTATATGCTAGGAAGGTCCTTGGGATAG
GCCGAAGAGGTGTGCAAACGAGCAGTGGAAGGCCCGGGCCCTGTCTCTCAGGACCACGGCGGCCTGCCCCACACA
CAGTTCTGCTTCTCCCTATCTAGAACGAGGTTTTCCTGGCAGATTCCTGCCAGACTCTGAGTGGAGCCCCCCCAT
GACCCTATAAAAGGGGCTGTTTGTCCTCCTCCCACCCTCCTGTGCTCTTCCTCCCTCCCCTTGAGGGCACATGGC
CGCTGGTACCACATGTTGGAGCGGCCGCCCCCGAGCCCGGGAATGCCCTAACAACACCCATGCTTGTGTTGCTGG
GAGCTGACATTCAAGAAAAGTGCATTAAAAATTCCTTGAGAAGGCATATTCTTTTGAGAGCCGTAAATGAAAAGT
GCATTCACGGAGAACATGCTCCTTTGTTGTGAGAGGAAAGAAAGGACTGTTGTTGCCTTTAAGGAACAGGTTTCC
CAGTTCCCCGGAATGTCAGGGTCACATGAGGAATGGGTGAGCACTTAGGGCCAAGATTGTCGTGTGCTTGGCCCG
GCAGCTTCTCTCTAAGTGACCTCTCCAGCATCACTCTGTGCCAGTGCTCATATCTGAGGCCACTTGAGTGTCACG
AGGCAGAGCCTGGAAACATTAGCTTTGGAAACCGTTCCTTCCTTTTTATGTGGAGGAAGTAAGGTTTCACAAGAC
ACCTAAGCTGGACATGGTGATGTGCCACTTGGATAGTTCCCAAAGCAGAAAGCAGCCAGGACATCCCAGTACCCC
ACTTCTCCGTGCCGTGTACTTTTAGGGAGGTTTTCGAAAGCTAGCTTCTTACCGATGATTTGTCTATTTTTCTG
TTTTATGTGAAAACCTTCATTTATAACCTGCTCTTCTCAGTGTTCTTCTATTCAGCATTCAGTATGACTTCTATG
CCTCTAATTGCGACTGTATGGAGAAGAACTGTTTGTCATTCAGTGCCGTGGGATATAATCAGTCCTGTAAATTCA
TCAGAATGTTCTGTTGCCTGATTTTTTTTCCATTGCATTTTAATTTCATTAAACATATTTTAGTTCTACAGTAAC

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FIGURE 5084B

CTAATTCCTCATTGTTACCATGAGATCCTAATTCTGTAGCTGTGTTCTGTAATCCCATGGGGCATGTACCATTTG
GAGACACATGAAGGATACAGTAGACAGCACGGAAGGCAGCAGCAACACACAGGGGTGTCCTCCCTCCCCAGAGCC
CAGTGTGCACACAGAACCAAATTCAATCTCATTCATCGTGAGCTTGCATGGTAACTGATCCAGCCACTCAGTACC
TCCATTGGATAAGAGATTTGGCCACAGATTCTTCTAGAGAAAATCCAAATGTGGAGGGTGCATTTGTTTCTGCAC
CCAAACAAATACCTTTTGAGATTTCTTATAGGCATTCCTCTCGAAGTCTCATTACTCTGATCAGTTATTGATCGG
AGGCTACCCTGGCTCAGTCACCAGCTGCTCACTGTGTCCTTCTGTGGTCTCAGGAGCTGCAGTTGTTGCTGTTGT
ATGAATAGACGATAGTTAATTAGACTGGATGTGTCTGTACTGGCAGTGATTTTGCAACTTCCTCTGTATAAGCGA
TACATTTGTAAATCATGGGAATGTATTTGATGGTAATTGCCTGTGGTGGTTGTATCATGATTTAATTTTATTATG
AGCTTTTGGCTTTATATATTTTTCTGCCTTTTTATGCATTCATTAAACAGTTTAACAGAC

FIGURE 5085

MGNHAGKRELNAEKASTNSETNRGESEKKRNLGELSRTTSEDNEVFGEADANQNNGTSSQDTAVTDSKRTADPKN
AWQDAHPADPGSRPHLIRLFSRDAPGEGGQHLQRQAL

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FIGURE 5086

CCTGGATGTG**ATG**GCGTCACAGAAGAGACCCTCCCAGAGGCACGGATCCAAGTACCTGGCCACAGCAAGTACCAT
GGACCATGCCAGGCATGGCTTCCTCCCAAGGCACAGAGACACGGGCATCCTTGACTCCATCGGGCGCTTCTTTGG
CGGTGACAGGGGTGCGCCCAAGCGGGGCTCTGGCAAGGTACCCTGGCTAAAGCCGGGCCGGAGCCCTCTGCCCTC
TCATGCCCGCAGCCAGCCTGGGCTGTGCAACATGTACAAGGACTCACACCACCCGGCAAGAACTGCTCACTACGG
CTCCCTGCCCCAGAAGTCACACGGCCGGACCCAAGATGAAAACCCCGTAGTCCACTTCTTCAAGAACATTGTGAC
GCCTCGCACACCACCCCCGTCGCAGGGAAAGGGGGCCGAAGGCCAGAGACCAGGATTTGGCTACGGAGGCAGAGC
GTCCGACTATAAATCGGCTCACAAGGGATTCAAGGGAGTCGATGCCCAGGGCACGCTTTCCAAAATTTTTAAGCT
GGGAGGAAGAGATAGTCGCTCTGGATCACCCATGGCTAGACGC**TGA**AAACCCACCTGGTTCCGGAATCCTGTCCT
CAGCTTCTTAATATAACTGCCTTAAAACTTTAATCCCACTTGCCCCTGTTACCTAATTAGAGCAGATGACCCCTC
CCCTAATGCCTGCGGAGTTGTGCACGTAGTAGGGTCAGGCCACGGCAGCCTACCGGCAATTTCCGGCCAACAGTT
AAATGAGAACATGAAAACAGAAAACGGTTAAAACTGTCCCTTTCTGTGTGAAGATCACGTTCCTTCCCCCGCAAT
GTGCCCCCAGACGCACGTGGGTCTTCAGGGGGCCAGGTGCACAGACGTCCCTCCACGTTCACCCCTCCACCCTTG
GACTTTCTTTTCGCCGTGGCTGCGGCACCCTTGCGCTTTTGCTGGTCACTGCCATGGAGGCACACAGCTGCAGAG
ACAGAGAGGACGTGGGCGGCAGAGAGGACTGTTGACATCCAAGCTTCCTTTGTTTTTTTTTCCTGTCCTTCTCTC
ACCTCCTAAAGTAGACTTCATTTTTCCTAACAGGATTAGACAGTCAAGGAGTGGCTTACTACATGTGGGAGCTTT
TGGTATGTGACATGCGGGCTGGGCAGCTGTTAGAGTCCAACGTGGGGCAGCACAGAGAGGGGGCCACCTCCCCAG
GCCGTGGCTGCCCACACACCCCAATTAGCTG

5519/6881
FIGURE 5087

MASQKRPSQRHGSKYLATASTMDHARHGFLPRHRDTGILDSIGRFFGGDRGAPKRGSGKVPWLKPGRSPLPSHAR
SQPGLCNMYKDSHHPARTAHYGSLPQKSHGRTQDENPVVHFFKNIVTPRTPPPSQGKGAEGQRPGFGYGGRASDY
KSAHKGFKGVDAQGTLSKIFKLGGRDSRSGSPMARR

5520/6881
FIGURE 5088

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GGCGCCTGAGCGGACTGACGCCGAGACGCGCGCGGGTCAGCGGCGCGGGGACGCGGGGCGCTGGGCGCGGGGCTG
GGGGCGCAGGCCCCGAGGCCGCAGGAGCGCGCGGAGCGGCGATGAGCAGGCGGCCGGTGGCCCGCGGGGCGCGGA
GCCCGTGACAGCCTCGGCCAGGCGGGCGCTGCGATGGAGGCCGAGGGCCTGGACTGGCTCCTGGTGCCACTGCAC
CAGCTGGTGTCCTGGGGCGCGGCCGCGGCCATGGTCTTCGGAGGGGTGGTGCCCTACGTCCCGCAGTATCGGGAC
ATTCGCAGGACGCAGAACGCCGACGGCTTCTCCACCTACGTGTGCCTGGTGCTGCTGGTGGCCAACATTTTGCGG
ATACTCTTCTGGTTTGGAAGGCGCTTTGAGTCCCCGCTGCTGTGGCAGAGCGCCATCATGATCCTGACCATGCTG
CTGATGCTGAAGCTGTGCACCGAGGTCCGTGTGGCCAACGAGCTCAACGCCAGGCGCCGCTCCTTTACAGCTGCA
GATAGCAAGGATGAAGAAGTCAAGGTTGCCCCCAGGCGGTCCTTCCTGGACTTCGACCCCCACCACTTCTGGCAG
TGGAGCAGCTTCTCGGACTACGTGCAGTGCGTCCTGGCCTTCACGGGCGTGGCGGGCTACATCACCTACCTGTCC
ATTGACTCCGCCCTGTTTGTGGAGACCCTGGGCTTCCTGGCTGTGCTGACCGAAGCCATGCTGGGTGTGCCCCAG
CTTTACCGCAACCACCGCCACCAGTCCACGGAGGGCATGAGCATCAAGATGGTGCTCATGTGGACCAGTGGTGAC
GCCTTCAAGACGGCCTACTTCCTGCTGAAGGGTGCCCCTCTGCAGTTCTCCGTGTGCGGCCTGCTGCAGGTGCTG
GTGGACCTGGCCATCCTGGGGCAGGCCTACGCCTTCGCCCGCCACCCCCAGAAGCCGGCGCCCCACGCCGTGCAC
CCCACTGGCACCAAGGCCCTCTGACAGTGGGGAGGACGAGGATGTGGGACCGCCAGCCGCGGGCACTGGTGGGCC
CTGACCTCCCCGCGGGGAGGGTGGGTGCTGTGGCCCCTGCAGGTGTGGCAGAGATGGGGCATGGGCATTGGGGTC
TCCATCAGCCTCTGTGGGGTGTCTCAGGGTGGGCAGTGGGGGTGGGGCTGGGACGCTGTTTGTGCTCAGCGGGGA
CAGCCAGGGTTGATCTGGCCCCGAGGGTTTTGGATGTTTTTAGGATGACATAAAAAGCAAGTGTTTTCCCCATTT
CCTCTTATGAAACACCGTCTGAGCCCAAGGTACACATTGGGCGGCCTGCAGGAACCTGCTCCAGGTGGACACACG
GGCCAGCAGCCGCGAACCTTGAAGCTGGGGTGACCGCAGGAGACCCTGTAAGGCCTGTGAGCGGAGCCCTCGACC
CCGTGACACCCTGGCCAGACACCCTGCTTGGACTGGGGTGGCCTCTGCTACCCAGGGGTCTGGCACGGGGGAGGG
CTGGGGCTTTCTCTGCCTGGTACACACGGAAAGGCGGCTGTGCGGACGCAGGGTCACCGTGCTCCGGGTTTTCTG
ACAGTCGGTGTTTCCTGGGCCTTTGGAGTGGCTGCGAGGCCTGAACGCCTTGTGGATCCGCTGTGTCCAGCCCGG
CTGAGCATCGCCAGGGCTAGCTCATGCTGCTCTTGTCAGCCTCTGGTTCTCCTCGAGTCCTTGGGGACGTGGCAG
ATGCCAGCGACCATCAGACAACGTGGAGGCCCTCATGGGCAATGGCTGAGGGGGCCGGGCTGAGGCTGTGCACAT
GCAGTCTGCACGCCACTCTTGGGCTCTGCTGGCGGAGATCCCCTTCCTTCTGGGTGCAGACTGCACCTCCGGATG
CAGTTTTGATGTCCATCTTCCAGGAGAGACGGTCTCGGGTCCAGGGAGTGGAGGGGGCTGCCCCTGCCGTGCAGG
TCCTGGCCGATGGCGCCTTACCCTGCTGCCCTGGGCTTTTGGCCTGAAGCAAATTCCTGAGTGGGGGGTACTGGG
GCCTGCCGCATCCTGTCCTGTCCACTGCCCACCCCCGTGTGCTGGCTCCCTCACTTCTGGCTGCAGTGGGAGCCG
CCAGTCTGACCCTTGTCACCGCACGCTCTGCCCCCACCCCGTTGCAAGAGGTCACACCATGTCAGCAGCCTTGCA
CTGACCGCAGCCGGCCCCCAGGCCTCAGAGTTCTGGATGCTTCCGTGCGGCTCCAACAGGCATCGTCTTCCCTTC
CGCAGGTGGAGGGGCCGCTTCCCGCAGGCATCTGAGCTCTGTGCCGGGGCCGTGGCCATGGGAAGATGTTCCACG
CTGCCTCCTCCTCGAGTTTTCCTCGGAAACACTCTTGAATGTCTGAGTGAGGGTCCTGCTTAGCTCTTTGGCCTG
TGAGATGCTTTGAAAATTTTTATTTTTTTAAGATGAAGCAAGATGTCTGTAGCGGTAATTGCCTCACATTAAACT
GTCGCCGACTGCAGGCGCAGTGACTGCTGAATGTACCCTGTGTGGCGACTTGGAATCAATAAACCATTTGTGGAT
CCTG
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5521/6881
FIGURE 5089A

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CTGGGTTGTGTCGCCGCGGTAGGCGCTGCGCTCTGAGCGCAGCGCAGGCCCCGTACCGACCGCCCGCCCGCCCTC
TGTCCGCGATGGAGGTGCCGGCCGCGGGTCGCGTTCCTGCCGAGGGCGCCCCGACGGCGGCTGTGGCCGAGGTGC
GCTGCCCGGGGCCCGCGCCGCTGCGCCTGCTGGAGTGGAGGGTGGCGGCGGGCGCGGCCGTGCGCATCGGCTCGG
TGCTGGCCGTGTTCGAGGCCGCCGCCTCCGCGCAGTCCTCCGGGGCCTCTCAGTCCCGTGTAGCCTCCGGGGGCT
GCGTGCGCCCCGCGCGGCCGGAACGCAGGCTGAGGTCGGAGCGCGCGGGCGTGGTGCGGGAGCTGTGCGCGCAGC
CGGGCCAGGTGGTCGCCCCAGGAGCGGTTCTGGTGAGGTTGGAAGGATGCAGCCACCCGGTTGTCATGAAAGGCC
TGTGTGCTGAATGTGGCCAAGACCTCACCCAGTTGCAGAGTAAGAACGGGAAGCAGCAGGTGCCGCTGTCCACGG
CGACCGTGTCCATGGTGCACAGCGTGCCGGAGTTGATGGTGAGCTCCGAGCAAGCTGAACAGCTGGGAAGAGAAG
ACCAGCAGCGACTGCACCGAAACCGGAAGCTGGTGCTCATGGTGGACTTGGACCAGACGTTGATTCACACAACCG
AGCAGCACTGTCAGCAGATGTCGAATAAAGGCATCTTTCACTTCCAGCTGGGCCGGGGTGAGCCCATGCTGCACA
CGCGCCTGCGTCCACACTGCAAGGACTTCCTGGAGAAGATCGCCAAGCTGTACGAGCTGCACGTCTTCACCTTCG
GCAGCCGGCTGTACGCACACACCATCGCAGGCTTTTTAGACCCCGAGAAGAAGCTTTTTTCTCACCGAATATTAT
CAAGGGATGAATGTATTGACCCATTTTCTAAAACGGGAAACCTTAGAAATCTCTTTCCTTGTGGAGACTCAATGG
TTTGCATTATTGATGATCGAGAAGATGTCTGGAAGTTTGCCCCCAATCTGATAACTGTGAAGAAATATGTATACT
TCCAGGGCACGGGTGATATGAATGCGCCCCCTGGGTCCCGAGAATCTCAGACGAGAAAGAAAGTAAATCATTCTC
GAGGCACTGAGGTCTCAGAGCCATCTCCGCCCGTGAGAGACCCTGAGGGGGTAACGCAGGCCCCTGGAGTGGAGC
CCAGCAATGGCCTGGAGAAGCCTGCACGGGAGCTGAACGGCAGCGAGGCCGCCACCCCGCGGGACTCACCCCGCC
CCGGGAAGCCAGACGAGAGGGACATCTGGCCCCCTGCCCAGGCCCCCACCAGCAGCCAAGAGCTGGCAGGCGCTC
CTGAGCCCCAGGGATCCTGTGCGCAGGGTGGCCGGGTGGCACCGGGACAGCGGCCTGCCCAGGGTGCCACGGGCA
CTGACCTGGACTTTGACTTATCCAGCGACAGCGAGAGCAGCAGTGAGTCCGAGGGCACGAAGTCCTCCTCCTCCG
CCTCTGATGGCGAAAGCGAGGGGAAAAGAGGCCGGCAGAAGCCGAAGGCTGCCCCAGAGGGAGCCGGGGCGCTGG
CACAGGGCAGTTCCCTGGAGCCGGGGCGGCCTGCAGCACCGAGTCTCCCCGGAGAGGCCGAGCCTGGCGCGCATG
CCCCGGACAAGGAGCCTGAGCTGGGTGGGCAGGAGGAGGGCGAGCGGGATGGCCTCTGCGGCCTGGGCAACGGCT
GTGCCGACAGGAAGGAGGCGGAGACCGAGTCACAGAACAGCGAGCTGTCGGGGGTCACTGCGGGTGAGTCCCTGG
ACCAGAGCATGGAGGAGGAGGAGGAGGAGGACACGGATGAGGATGACCACCTCATCTACCTGGAGGAGATCCTGG
TCCGTGTACACACTGACTACTATGCCAAGTATGACCGCTACCTCAACAAGGAGATCGAGGAGGCGCCGGACATCC
GCAAGATCGTGCCGGAGCTCAAGAGCAAGGTGCTGGCAGACGTGGCCATAATTTTCAGTGGGCTACACCCGACAA
ACTTCCCGATAGAGAAGACGCGGGAGCATTACCACGCCACGGCGCTGGGAGCGAAGATCCTCACTCGGCTGGTGC
TGAGCCCCGACGCCCCTGACAGGGGCCACGCACCTGATCGCCGCGCGAGCTGGCACAGAGAAGGTGCTGCAGGCAC
AGGAGTGCGGACACCTGCACGTGGTCAACCCTGACTGGCTGTGGAGCTGCCTGGAGCGCTGGGACAAGGTGGAGG
AGCAGCTCTTCCCGCTCAGGGACGATCACACCAAGGCACAGAGGGGAGAACAGCCCTGCGGCCTTTCCCGACCGGG
AGGGTGTGCCCCCCACCGCCTTGTTCCACCCGATGCCGGTTCTTCCCAAGGCCCAGCCTGGCCCCGAGGTTCGGA
TCTACGACTCCAACACGGGGAAGCTCATCAGGACGGGCGCCCGGGGGGCCCCCAGCACCCTCCAGCTCCCTACCCA
TCCGCCAGGAGCCCTCTTCCTTCAGAGCGGTTCCGCCACCCCAGCCGCAGATGTTTGGTGAAGAGCTGCCTGACG
CTCAGGACGGAGAGCAGCCTGGCCCTTCTAGAAGAAAGCGACAGCCCAGTATGTCTGAGACAATGCCGCTGTACA
CTCTTTGTAAGGAGGATTTAGAGAGTATGGACAAAGAGGTGGACGACATCCTTGGAGAAGGCAGCGACGACAGCG
ACAGCGAGAAGAGGAGGCCTGAGGAGCAGGAGGAGGAGCCCCAGCCCCCGGAAGCCAGGGACCCGCAGGGAGCGGA
CGCTCGGGGCACCTGCGTCCAGCGAGAGGAGCGCGGCAGGGGGCCGGGGGCCCAGAGGCCACAAGAGGAAGCTGA
ATGAAGAGGACGCCGCCAGCGAGTCCAGCAGGGAGTCCAGCAACGAGGATGAGGGCAGCAGCTCCGAGGCCGACG
AGATGGCCAAGGCGCTGGAGGCGGAGCTCAACGACCTCATGTGAGCGCGGGCAGCGGGCAGGGACTGAAGCCTGA
CCGACCTCCAGCAGCACTCGGACGTCCCCGGACCAGCCCTCAGTCTCGGTCCACGCTGCTTTCTTCCCAAAGGAC
ATGTATATTTGCAGAGCTCCACATACAGAAACACATTATTTTGCAGAAATAGGTGTTTTTAAGAAGTTTTACTAC
AGGAATGTCTACTTTTGTAAGTGACAGGTGTTAAAGGCCCAGGTGTGCTGTGCCAAAGAGCTCAGCAGAGGCTCA
CGTGGCCCAGGCTGGTGCGCCCGCTGTCTCGGTAAGGGGCGGGTTGGTGTGTTTCCCCTTGTGTACCAGAGCAC
ATTCCTTAGGGGACGGCTTTGGGGGTCCCACGAGACATGGACTAGGAGTTTAAGCAGGACAGTGTGCGTGCACGA
GCTCCGAGCCCAGCACAGACATGCCTGGAACCCCCGCCGCCTGCTGCTCCCTCCTAGGGAACCCATTTCCGGGGA
ACGCCGTGACTGTCGGGCAGCCTGGAGCTTCCTGCAGCCTCCTACGCAGGGTCCACGCCACGTGGCCTGGGCTGC
CATCCTGCCGTCCTCCCACTGGCATCCTGGCAAGGGGGCGTTGCTTTTCCTGGGCGGCCTTTTATGTCTTGGAGA
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5522/6881
FIGURE 5089B

CACCTGATGTAAAGTTTCTGTAAATCTATTTCATATCTGACCCACCAAACAGATTTCTCTTTAATAAAAATCCTT
TTTGTAAGTTC

5523/6881
FIGURE 5090A

CACCCTTCCATCACCCCAGCCTGAAACTCTACCCATTGAACACGAGCTGCCCAACTCCGCCTTGCTTCCCCATTC
CTGGCGACCACTGCTTCTGTCTCTGTGAATTTTGACTATTCTAGGCACTTCACAAAACTGGACTCATACGATATC
TGTAGTTTTGCGTCTGGCTTCTCTATTGAATTCTTAAAGGGGGGTGGGAACTAAGCAGATCACAAGGGAGCTGCC
CACAGAGGTAAAGACAAGGTCAGGTAGGCTGAGAGACGCAGGAAAGCGGGTCAAGGCGTAGGGCTGGAGGGCAGG
GGCGGGCCCTGGGCGTGGGCTGGGGGTCCTGCCCCGGGGCGCACCCCGGGCGAGGGCTGCCCGGAGGAGCCGAGG
TTGGCGGACAGCTTGGCCCTGAGCTTGAGGGGAAGGCAGCGATGGGACAAAGGACGGAGGTCTAGGAAGAGGGTC
TGCAGAGCAGAAAGCACGGGTAGGGGCGGCCTGACGCTCGGAAGACAACGCATGGGAGCCGTGTGCACGTCGGGA
GCTCGGAGTGAGCGTGAGTTCCGTGCCCAGGCCCGCGACTCGGCCCGACAGGACAGCGCTCCGGGTCGACGGGGT
CCTGGAGCCGCGCTCGGGGAGGGCGCAGCGGAGGGCGAGCGGCGGCGTTAGGACCCGGAGGCGCGGGCGGACTGG
GGGCGGCGGGGCTAGGACCCAGCGGCTCCGGCAGAGCGGAAGCGGCGGCGGGAGCTTCCGGGAGGGCGGCTCGCA
GGCACCATGACTCCTGTGAGGATGCAGCACTCCCTGGCAGGTCAGACCTATGCCGTGCCCTTCATCCAGCCAGAC
CTGCGGCGAGAGGAGGCCGTCCAGCAGATGGCGGATGCCCTGCAGTACCTGCAGAAGGTCTCTGGAGACATCTTC
AGCAGGTGGGTGCTGCCACTCACCCCCACCTG**ATG**AGAGGGCCATCCCTGTCCTGGGCAATCCCAGCAACACACC
CTCTGGGAGCAGCCCCCTTGGGGAATCCCGGTCCTGGGGAACCCATCTGGCTTCCCTGTGTGGGAGGGGCTGAAG
TGAGAGCCCAACTTGGAAGCTTTTACTCCTGGGAGTCCAAGAGCTCACTCCCTTCCACCCCACTTAGCCTCCTGG
TTTCCTGTGGTGGCTCTGCTCTCACAACTCATGCTTTTCCTCCCATTGGAGGGCCTATTCCTTCACGTTTTCCTG
CAGCCAACAAATATTTACCCAGCAGTGCTCGTGTGCAAGGCAGTGTGGGAATCTCTATATATCCAGCCACGGATA
AGGCAACATACCTCTCCACCTGGAGCGCACATTCTGGCAGGAGAGAAAGACCTAAA**TAA**GCAATAGATGATTAGT
TCTTCAATAACAGTTGTGACAAGGTCTATTGATAATATTTTGTAATCACTAATATTCATATAAACCGTGCACAAC
CATTGATTTGAGTGCATTAACTCACACTTCATGAGCAGGCACTGCCGTCATCTCATTTTATAGATGAGGAAACTG
AGGCACAGAAGGGCTGAGAGACCTGGCCTAGTGACAGAGCCAGGATTCAAAGCCATAGATCATGGCCCCGGGTTA
TGTAGGTTATTACTGCATCTGTTCAGGGGAGATGGGGTACTGTGAGGCTCGTCATGGGAAGCCTGGCTTGGTCTC
AGGTCAGGGAAGGCAGACGTGAGGAAATGACATTTATGGTAAAGTCTGAGGGTTGAGTGGGTAGGTTGGGAAGAA
CATTCCAGAAAGAAGCACATGAACTACAGCCTGGAGGTGGAGGACCTAAAAGGAAGCCAGCATGGCTGGAGCACG
GAGTGGCCATTGAGGGAGGCGAGCTGGAGGGCTGCAGCTTCTTGTATTGGCAGTGCTGACCTCGCACAGTCCTTG
GGCTCCAGTGACTTCACTCAGTGTTTATCTAACATGAGTGAGTGAATGGTGTTTGCTCTTTTTTTGGTAAAGGTC
CCAGGGGTTGTCGGGTACACAGGTCCTGTCTTTGGCCATAAGCAAACTGAAATGAGGCTTGGTCTCCTTCCCAGG
ATCCCACACCATGCCTCACATGGTAGACCCCAGTGGGAAGTATGTGACTGCCTGACTCAGGTGCCTCTCGTGGTC
CAAGCCATCCCTGCCCTGTCCCTTCCCTGGTTGTCGCCAGACCTGGAGCCCCTGCTCCTTCACTTTGCAGCCTCC
TCTTCTGTCACCAACTGGGAACCCACCTCTTCCTGAAAGTCCTCCCCCACTGACTCACCGGCTTGCCCCGAGTTT
GTCAAGAATGTCCCAGTAACCAGGGGACACACAGTGAAGTGACTGAGGGGTTACCTTGGAGTTGATGCCTTGGCT
CAGATCCAGCTCCCCTGTTTTCTTCCTCTGTAACCTTGGGCAACCCAACCCCTCTAAGCCTCGGTGTTCTCATTT
GTGAAGTTGTGGTAATAATGGTAGCTTCCTGGTAGAATTATTTTAAATATTAAATTAATCAAAACATGCAAAGGA
ATGGAACAGTGCCTGGCACTTAGGAAGCCTTCAGGAAATGCTATCTCTTCCCTGTTGATAATCTTGACCCGTACA
CTGCCTTTGGTTGCCATTCATAAACCTGCCACCAATAGTAACAAAGTGCTGGATGCACCTTTTGTGCTTATCTTT
GTGCTAAATGTGCCCGAGGGACACCTAGGGAAGAGGATGCAGGTCTTTAAGAGCCATCAGCTCCAGATTATGGCC
ACCCCATGTCCAGCACTTAGAATGGAGGCCAAAACCATTCCCTCGGAAATTGTGTTTCCTTGCCAAGATGGGGAC
TGCGTGGTTGCCCTTCTCTGAGGGCAGCGCTGGATTTTTGGCGTCTTTCCTTTCCTGTCCTGGTACTTGGCACCT
TGTAGACAGTTGCATGTCCCCTGCCCAGGGATGGGATGAGGAGAGGGCAGGAAGGCATTCCTGGGTAGTGGAGT
GCTGCGTTCATTGAGTGTGGGTTCTCCAAGCTGCTGGCACAGCGCAGGGAGGGCCAGATGCCTCTCAGGAGCCTT
GGGCCTGAGTCCTGGCTCCCTCACTCCTGGGTTCCAGGTCACTGCATCGTCTCTCCACCATGTGCTCCACCTCG
TGCTGGACCTTAAGAGATACCAATTATGTGGCTGCCACTGTGTCCTAGAGGCTGGAATGGGAACACATAGGGCGA
GATTGATTGTTAATTGCTAGCATGAACCGCGTGGGCTTCTCAGGGTCTAGAGTGGAGAGAAATCGGTAAGAATTG
GTGGCACGCCTGTCAGAACTCCCCAGACCAAGCTAAGCAAAAATTAACCAATCAGTAGAGCAGCCTTCGGAGTAA
GGGCTAAAATGATGTCCTCẠGGGCCTGGTTTTGCTTTCCTTCCATGTCAGTTTGCTTCTTTGGGTCTGGCTGCAT
TCCCAGACAGGCCATGCTCTCGTGGTAGCAAGGTGACATGACACAGGGTCAGGTCCAGCAGGAAAGAATGCTGTC
CTGTGTCCCCACTTCCTCCAGAAGCCACACTCACTCATCCCACCTGGCTTGGTCCTCATGTCTATCCCAGAATCC
ATTAATGGGGCCAGGGGACTATGACACACCACTTGGCTTAGACTGAGGAGCTCTGTGGGCAGCCCCACCTGAAGC

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FIGURE 5090B

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TCTGGGACTAAGCCTGCGAGAGAGATGGATTCCCCAAGGGAAATGGGGCCATTGCTTGAGTAAAAAGGAAATAGT
TGCTGAAGAGGAAAACCACGTGCTTACTCCACATAGGGCAGACTCCTGGAAGAGGGGGGCAGGGTAGGGAGGTGG
ATATGCAGGTTGCCCTGGCAGGGTCTGGAAATGGGGGCTGCAGGCTTGGAGGGAGGCCTCAGTGTGGCTTGGAAC
GTGGTGTATGGTGGTCTGCCGCGAAGGCCGGCCTGCACAGGGGTGGGAGGGGGGTGCTTCTGCATGGGAAGCACA
GACAGCGCTGCCTCTCCCTTGCACTCAGCTCTCGGGGCATGAGAGGCTAACTTTCCGTGAGCCTGTGGGCCAGGC
CTCTTTGAATGGGGCTGAGGGAGCTTTGCCCTGGTTCCTTTGTGTCCCCACGGTGCCACGGGAGGCTCCCTGGCA
GGGTGTGGGGCAGGGCAGTGAGTGAAGAGTTGGGATGAGTGAGTTAGGGCCCACGGATTACTCAAGACAGGACTT
CAAGTTGATTCAGGCGTGTTAGGGAGCTGTGATTGGATTTTGAGCAGGGCAGGGATGGGACAGAAGAGTTTGGGG
AAGGTTCCTCAGGCATCCGTCACAGAAGGGACAAGAAGGGAGAGAGAGTGGATGCCAGGGACACCCAGAAGCTGT
TATTGTAGTCAGGATACGACAGGGGTGAGGCTACAGACAGGGGACTTGCAAGCAGGGAGGGCAGGGTGAGACATT
CAGAGGAAACGACGACAGGAAATGGTGACAGATAGGGAACGAGGATGAAGGGAAGGGAGAGCCAGTGACGACTGG
CAGTGGAGTGGGGAGCACCGCCACCTCTCCTCCTCCACTTGCCCCTCCTGTGGCACTGGACAAGCTAGTGGGCTT
TTCGTTGTCCATGGGCTTTTTCGGTGGGGATGTGACCAGCTTTGAACCCGTCCCCTTAAACATGCTCCTCCTGCA
CGGAAGAGACAGGGGCAGGGGAGAGACTCTCTCCCCACCACCCGGCTCAGGCCCCAGCACAGCCCGGCCTCTGGC
CTCACTGGCGTCTGTGCCCAGTGACGCAGGCAGGTGAGCTCCTGGCAAATTAGCATTGCAGGCTGTGCTCTCTCC
TCCTGCTCTGCTGCAGCTGGGAGTGTGCAGAGACTGGAGGGGATGACAGTCACCCTCTGTTTTCTGTGGTGGCTC
TGTTTTCTGTGGTGCTGGATGCACCTCTGTTTTCTGTGGTGGCTCCAAGAGAGTGCACGGTCCCTGCTGATTGAA
AGAAGGATGAAGGGCAGAAGAGGGGCGGGGAGCTGTGTGCCCTAAGATCTCATTGCCTTTTTATGCCGATTAACA
TGCTTTTAGCCCCTACTGAGCTTATAGTTAACAGAAGTTTCCAGGTCTTTCTTCACCTGAACTGTGTCTAAAGCA
AGTTCCCTCCACCTTCTGTATTTATACGCTTGATTTTTAAAAACCTAAATGTTGGGCTTCACATTTGTTCCTTGTA
AATTTCATCTTGGTGATTGCAGTCTACCCTCTGGCC
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FIGURE 5091

MRGPSLSWAIPATHPLGAAPLGNPGPGEPIWLPCVGGAEVRAQLGSFYSWESKSSLPSTPLSLLVSCGGSALTTH
AFPPIGGPIPSRFPAANKYLPSSARVQGSVGISIYPATDKATYLSTWSAHSGRRERPK

5526/6881
FIGURE 5092

AGATGATGATTATTCCCCACCTTCTAAGAGACAAAGACCAACGAGCCGCCACAGCCACCAGTCCCAGAACCCGCC
AATGCTGGGGAACGGAAAATGAGGGAGTTCAACTCTGGCCCTCACAATCCAGTGGAGGAGACGCAACTCATCTGC
CTCTGTCCCTCTGGGCACGCCTCGTGCCAGGTGCATCTGTGGACAGGGGCCATGCTCCTGGGCTTCCAAAGTTGG
AGAAAGCTGCCAGGCTCAGGTCTGAAGGCCAGAATTCTACAGTAAGTCCTACTGAGTCAAGGTGGGAGCAGGGTC
GGTAGCTTCCGAGGCTCTGCGGGAGAATCTGTTTCCTGGCCGTAGAGGTGGCCTGCACTCCTCAGCCTGTGCTGC
CCGTCTCGAATGACTGGAGTTTCCTGCTTCTGTCACTACACCTCCCACCCTCTCCATCACCTGCTCTGCTCTTAC
AAGGATCCGAAGAAATGGAATCATCGTATCGCTGATCTACGTAAACAAACTGAAGAATTGTCTGAAAGAAAATAT
GACATGAACTTATGAATTCAATAGGTGAAGATTTACAACTTGATAAATCAACTTTGTCAGCTCGAGCTGTAAAAG
CCAAAGGTCCGGTGATGATCCCATACCCTTTTTTCCAGTCTCATGTTGAAGATTTTTATGTAGAAGGCCTTCCCA
AAGGAATTTTTTTTTTTTTTTTTTTTGAGATGGAGTTTTCACTCTTATCGCCCAGGCTGGGGTGCAATGGCAC
AACCTTGCTGGTCACTGCAACCTCTGCCTCCTGGGTTCAAGAAATTCTCCTGCCTTAGCCTCCCAAGTCACTGGG
ATTACAGGTGCCCACCACCACACCAGGCTAATTTTTGTATTTTTAGTGGAGATGCGGTTTCACCATGTTGGCCGG
GCCAGTCTCGAACTCCTGACGTCAAGTGATCTTCCCGCCTCGACTCCTGATATCAAGTGATCTTCCCGCCTCGGC
CTCCCAGAGTGCTGAGATTACAGACGTGAACCCATGCCTGGCCAGGAATTTTGTTTTTTAGGAAGGCTTTCTACT
AATGGAATTCCTGGCCTTGAGAGGATGTTACTTTAGAAGGAAAGGATTTTTTTGTTATTAAAAGCTGGACCTACC
ATGAAAGACTTCTGAATCCAGGAAGAGAAACTGACTGGGCAACATGTTATTCAGAAACAGGACCTTGCCCTGTCA
CTCAGGATGGAGTTCAGTGGTCCTATCATGGCTCATTATAGCCTCAAACTCCCAGGCTCAAGCAATCCTACCATG
TCAGCCTTCCCAGTAGCTGGAACTACAGATACCGGGTCTCACACTGTCACCCAGGCTGGAGTACAGTGGCACAAC
CTCTGCTCACTGCAGCCTCCACCTGCCAGGCTCAAGCAATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGTGATTT
CCAGGAAGTGCGCTCACAATGACTCAAGCTGCCACATACTGTTGATTGTGAAATGCCAGTTGAAGCATATGTCCT
GCAAGCTTAGGGGTGCTACAAGTTGACCACTGCAGCAGTAAAGATGACTCTGAAGAACGGCGTGGGATGGTTCCT
TTCAAATGCACTTGAGCAGCGGTCTCCAACCACAGGGCCACAGAGCTGGAGCTGGATCTACCATGAAAGACTTGT
GAATCCAGGAAGAGAGACTGACTGGGCAACATGTTATTCAGAATCTCCCTGTGCCATCCAGGCTGGAGTGCAGTG
ATGTGATCATAGCTCACTATAGCTTTGGCCTTCTGAGATCAAGCAATCCTCCCATCTCAACCTCCCAAGTAGCTA
GGACTACACACGCATGCCACCCATGCCCAGATCATTTTTGTAGAGTCAGAGTTTCACCGTGGTGGCCAGGTTGGC
CATGTTGGCCAGATGGGGTCTTCTTTTGTTGCCCAGGCTGGCCACAAATTCCTGGGCTCAAGTGATCCTCCCACC
TCGTCCTTGTAGAGATGAGATTTAGTTATGTCGTCCAGGCTGATCTCAAACTCCTGGGCTAAATCGATTGTCTCA
CCTCAGCCTCTCAAGTATGTTATGAAGGTTATATGTTAGGAAGGGTCCCAGGAGGTAAACCCACACAGATGGGAT
TTGGGCATAGGTTTGGTTTCCCAGGGGGCAGTGCTGAGCTCTTTGCCAGTGGGAAATGGGATGCTGGTGATTTCC
AGTAGGTGACCTCACAGTGACTCAAGCTACCACTTACTGTTGATTGTGACGAAATGCCAGCTGAGGCACATGCCT
TGGGAGCTAAGTGGTTGCTGCCCTTGACCACTGTGAAGACTGGTGTGGGAAGGGTCGTTTTGGATGCACTTGAGC
AGGGGTCCCCAACCCCTGAGCCATGGAGCCGCAAGGAGCCACACAGCAGGAGGTGGGAACATCCAGTTGCAGGAA
AACAAGCTTAACACGCCCACTGATTCTACATTATGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAGAACTTTCT
CCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCATACCCTACGTCACGGCAGCCT
CCGCAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTTTAGACCCA
GCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTC

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FIGURE 5093

GCGACGGGACGCGCTGGGACCGGCGTCGGGGGTCGCGGGGACC**ATG**CAGCGGAGGTGGGTCTTCGTGCTGCTCGA
CGTGCTGTGCTTACTGGTCGCCTCCCTGCCCTTCGCTATCCTGACGCTGGTGAACGCCCCGTACAAGCGAGGATT
TTACTGCGGGGATGACTCCATCCGGTACCCCTACCGTCCAGATACCATCACCCACGGGCTCATGGCTGGGGTCAC
CATCACGGCCACCGTCATCCTTGTCTCGGCCGGGGAAGCCTACCTGGTGTACACAGACCGGCTCTATTCTCGCTC
GGACTTCAACAACTACGTGGCTGCTGTATACAAGGTGCTGGGGACCTTCCTGTTTGGGGCTGCCGTGAGCCAGTC
TCTGACAGACCTGGCCAAGTACATGATTGGGCGTCTGAGGCCCAACTTCCTAGCCGTCTGCGACCCCGACTGGAG
CCGGGTCAACTGCTCGGTCTATGTGCAGCTGGAGAAGGTGTGCAGGGGAAACCCTGCTGATGTCACCGAGGCCAG
GTTGTCTTTCTACTCGGGACACTCTTCCTTTGGGATGTACTGCATGGTGTTCTTGGCGCTGTATGTGCAGGCACG
ACTCTGTTGGAAGTGGGCACGGCTGCTGCGACCCACAGTCCAGTTCTTCCTGGTGGCCTTTGCCCTCTACGTGGG
CTACACCCGCGTGTCTGATTACAAACACCACTGGAGCGATGTCCTTGTTGGCCTCCTGCAGGGGGCACTGGTGGC
TGCCCTCACTGTCTGCTACATCTCAGACTTCTTCAAAGCCCGACCCCCACAGCACTGTCTGAAGGAGGAGGAGCT
GGAACGGAAGCCCAGCCTGTCACTGACGTTGACCCTGGGCGAGGCTGACCACAACCACTATGGATACCCGCACTC
CTCCTCC**TGA**GGCCGGACCCCGCCCAGGCAGGGAGCTGCTGTGAGTCCAGCTGATGCCCACCCAGGTGGTCCCTC
CAGCCTGGTTAGGCACTGAGGGTTCTGGACGGGCTCCAGGAACCCTGGGCTGATGGGAGCAGTGAGCGGTTCCGC
TGCCCCCTGCCCTGCACTGGACCAGGAGTCTGGAGATGCCTGGGTAGCCCTCAGCATTTGGAGGGGAACCTGTTC
CCGTCGGTCCCCAAATATCCCCTTCTTTTTATGGGGTTAAGGAAGGGACCGAGAGATCAGATAGTTGCTGTTTTG
TAAAATGTAATGTATATGTGGTTTTTAGTAAAATAGGGCACCTGTTTCACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5094

MQRRWVFVLLDVLCLLVASLPFAILTLVNAPYKRGFYCGDDSIRYPYRPDTITHGLMAGVTITATVILVSAGEAY
LVYTDRLYSRSDFNNYVAAVYKVLGTFLFGAAVSQSLTDLAKYMIGRLRPNFLAVCDPDWSRVNCSVYVQLEKVC
RGNPADVTEARLSFYSGHSSFGMYCMVFLALYVQARLCWKWARLLRPTVQFFLVAFALYVGYTRVSDYKHHWSDV
LVGLLQGALVAALTVCYISDFFKARPPQHCLKEEELERKPSLSLTLTLGEADHNHYGYPHSSS

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FIGURE 5095

GCCGCGGGCGGCGGCGGCAGCGGTTGGAGGTTGTAGGACCGGCGAGGAATAGGAATC**ATG**GCGGCTGCGCTGTTC
GTGCTGCTGGGATTCGCGCTGCTGGGCACCCACGGAGCCTCCGGGGCTGCCGGCACAGTCTTCACTACCGTAGAA
GACCTTGGCTCCAAGATACTCCTCACCTGCTCCTTGAATGACAGCGCCACAGAGGTCACAGGGCACCGCTGGCTG
AAGGGGGGCGTGGTGCTGAAGGAGGACGCGCTGCCCGGCCAGAAAACGGAGTTCAAGGTGGACTCCGACGACCAG
TGGGGAGAGTACTCCTGCGTCTTCCTCCCCGAGCCCATGGGCACGGCCAACATCCAGCTCCACGGGCCTCCCAGA
GTGAAGGCTGTGAAGTCGTCAGAACACATCAACGAGGGGGAGACGGCCATGCTGGTCTGCAAGTCAGAGTCCGTG
CCACCTGTCACTGACTGGGCCTGGTACAAGATCACTGACTCTGAGGACAAGGCCCTCATGAACGGCTCCGAGAGC
AGGTTCTTCGTGAGTTCCTCGCAGGGCCGGTCAGAGCTACACATTGAGAACCTGAACATGGAGGCCGACCCCGGC
CAGTACCGGTGCAACGGCACCAGCTCCAAGGGCTCCGACCAGGCCATCATCACGCTCCGCGTGCGCAGCCACCTG
GCCGCCCTCTGGCCCTTCCTGGGCATCGTGGCTGAGGTGCTGGTGCTGGTCACCATCATCTTCATCTACGAGAAG
CGCCGGAAGCCCGAGGACGTCCTGGATGATGACGACGCCGGCTCTGCACCCCTGAAGAGCAGCGGGCAGCACCAG
AATGACAAAGGCAAGAACGTCCGCCAGAGGAACTCTTCC**TGA**GGCAGGTGGCCCGAGGACGCTCCCTGCTCCACG
TCTGCGCCGCCGCCGGAGTCCACTCCCAGTGCTTGCAAGATTCCAAGTTCTCACCTCTTAAAGAAAACCCACCCC
GTAGATTCCCATCATACACTTCCTTCTTTTTTAAAAAAGTTGGGTTTTCTCCATTCAGGATTCTGTTCCTTAGGT
TTTTTTCCTTCTGAAGTGTTTCACGAGAGCCCGGGAGCTGCTGCCCTGCGGCCCCGTCTGTGGCTTTCAGCCTCT
GGGTCTGAGTCATGGCCGGGTGGGCGGCACAGCCTTCTCCACTGGCCGGAGTCAGTGCCAGGTCCTTGCCCTTTG
TGGAAAGTCACAGGTCACACGAGGGGCCCCGTGTCCTGCCTGTCTGAAGCCAATGCTGTCTGGTTGCGCCATTTT
TGTGCTTTTATGTTTAATTTTATGAGGGCCACGGGTCTGTGTTCGACTCAGCCTCAGGGACGACTCTGACCTCTT
GGCCACAGAGGACTCACTTGCCCACACCGAGGGCGACCCCGTCACAGCCTCAAGTCACTCCCAAGCCCCCTCCTT
GTCTGTGCATCCGGGGGCAGCTCTGGAGGGGGTTTGCTGGGGAACTGGCGCCATCGCCGGGACTCCAGAACCGCA
GAAGCCTCCCCAGCTCACCCCTGGAGGACGGCCGGCTCTCTATAGCACCAGGGCTCACGTGGGAACCCCCCTCCC
ACCCACCGCCACAATAAAGATCGCCCCCACCTCCACCCTC

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FIGURE 5096

MAAALFVLLGFALLGTHGASGAAGTVFTTVEDLGSKILLTCSLNDSATEVTGHRWLKGGVVLKEDALPGQKTEFK
VDSDDQWGEYSCVFLPEPMGTANIQLHGPPRVKAVKSSEHINEGETAMLVCKSESVPPVTDWAWYKITDSEDKAL
MNGSESRFFVSSSQGRSELHIENLNMEADPGQYRCNGTSSKGSDQAIITLRVRSHLAALWPFLGIVAEVLVLVTI
IFIYEKRRKPEDVLDDDDAGSAPLKSSGQHQNDKGKNVRQRNSS

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FIGURE 5097

CGGGCGGCGGCGGCAGCGGTTGGAGGTTGTAGGACCGGCGAGGAATAGGAATCATGGCGGCTGCGCTGTTCGTGC
TGCTGGGATTCGCGCTGCTGGGCACCCACGGAGCCTCCGGGGCTGCCGGCACAGTCTTCACTACCGTAGAAGACC
TTGGCTCCAAGATACTCCTCACCTGCTCCTTGAATGACAGCGCCACAGAGGTCACAGGGCACCGCTGGCTGAAGG
GGGGCGTGGTGCTGAAGGAGGACGCGCTGCCCGGCCAGAAAACGGAGTTCAAGGTGGACTCCGACGACCAGTGGG
GAGAGTACTCCTGCGTCTTCCTCCCCGAGCCCATGGGCACGGCCAACATCCAGCTCCACGGGCCTCCCAGAGTGA
AGGCTGTGAAGTCGTCAGAACACATCAACGAGGGGGAGACGGCCATGCTGGTCTGCAAGTCAGAGTCCGTGCCAC
CTGTCACTGACTGGGCCTGGTACAAGATCACTGACTCTGAGGACAAGGCCCTCATGAACGGCTCCGAGAGCAGGT
TCTTCGTGAGTTCCTCGCAGGGCCGGTCAGAGCTACACATTGAGAACCTGAACATGGAGGCCGACCCCGGCCAGT
ACCGGTGCAACGGCACCAGCTCCAAGGGCTCCGACCAGGCCATCATCACGCTCCGCGTGCGCAGCCACCTGGCCG
CCCTCTGGCCCTTCCTGGGCATCGTGGCTGAGGTGCTGGTGCTGGTCACCATCATCTTCATCTACGAGAAGCGCC
GGAAGCCCGAGGACGTCCTGGATGATGACGACGCCGGCTCTGCACCCCTGAAGAGCAGCGGGCAGCACCAGAATG
ACAAAGGCAAGAACGTCCGCCAGAGGAACTCTTCCTGAGGTGGCCCGAGGACGCTCCCTGCTCCACGTCTGCGCC
GCCGCCGGAGTCCACTCCCAGTGCTTGCAAGATTCCAAGTTCTCACCTCTTAAAGAAAACCCACCCCGTAGATTC
CCATCATACACTTCCTTCTTTTTTAAAAAAGTTGGGTTTTCTCCATTCAGGATTCTGTTCCTTAGGTTTTTTTCC
TTCTGAAGTGTTTCACGAGAGCCCGGGAGCTGCTGCCCTGCGGCCCCGTCTGTGGCTTTCAGCCTCTGGGTCTGA
GTCATGGCCGGGTGGGCGGCACAGCCTTCTCCACTGGCCGGAGTCAGTGCCAGGTCCTTGCCCTTTGTGGAAAGT
CACAGGTCACACGAGGGGCCCCGTGTCCTGCCTGTCTGAAGCCAATGCTGTCTGGTTGCGCCATTTTTGTGCTTT
TATGTTTAATTTTATGAGGGCCACGGGTCTGTGTTCGACTCAGCCTCAGGGACGACTCTGACCTCTTGGCCACAG
AGGACTCACTTGCCCACACCGAGGGCGACCCGTCACAGCCTCAAGTCACTCCCAAGCCCCCTCCTTGTCTGTGC
ATCCGGGGGCAGCTCTGGAGGGGGTTTGCTGGGGAACTGGCGCCATCGCCGGGACTCCAGAACCGCAGAAGCCTC
CCCAGCTCACCCCTGGAGGACGGCCGGCTCTCTATAGCACCAGGGCTCACGTGGGAACCCCCCTCCCACCCACCG
CCACAATAAAGATCGCCCCCACCTCCACCCTC

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FIGURE 5098

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GGCACGAGGATACCTCCTCATCAACTCTGACATAGTGTGCGAACAGGACATCTACGAGTGGACTAAGATCAATGG
CCGGCGGCGGGTGCCGCGCGGGGGGCGGGCGGCGCGGAGTAGGTGGCGGCGGCCATGGCCGAGGCGTCGCCGCAT
CCCGGACGGTACTTCTGCCACTGCTGCTCCGTGGAGATCGTCCCGCGCCTGCCGGATTATATCTGTCCAAGATGC
GAGTCTGGTTTTATCGAGGAGCTTCCGGAAGAGACCAGGAGCACAGAAAATGGTTCTGCCCCCTCCACAGCTCCC
ACAGACCAGAGCCGGCCACCGCTGGAGCACGTGGACCAGCACCTGTTCACGCTGCCGCAGGGCTACGGACAGTTT
GCTTTCGGCATCTTCGATGACAGCTTCGAGATCCCCACGTTCCCTCCTGGGGCGCAGGCTGACGACGGCAGGGAC
CCTGAGAGCCGGCGGGAGAGAGACCATCCGTCCCGGCACCGGTACGGCGCCCGACAGCCCCGCGCCCGCCTCACC
ACGCGGCGGGCCACCGGCCGGCACGAAGGCGTCCCCACGCTGGAAGGGATCATCCAGCAGCTCGTCAACGGCATC
ATCACGCCCGCCACCATCCCCAGCCTGGGCCCCTGGGGAGTCCTGCACTCAAACCCTATGGACTACGCCTGGGGG
GCCAACGGCCTGGATGCCATCATCACACAGCTCCTCAATCAGTTTGAAAACACAGGCCCCCCACCGGCAGATAAA
GAGAAAATCCAGGCCCTCCCCACCGTCCCCGTCACTGAGGAGCACGTAGGCTCCGGGCTCGAGTGCCCTGTGTGC
AAGGACGACTACGCGCTGGGTGAGCGTGTGCGGCAGCTGCCCTGCAACCACCTGTTCCACGACGGCTGCATCGTG
CCCTGGCTGGAGCAGCACGACAGCTGCCCCGTCTGCCGAAAAAGCCTCACGGGACAGAACACGGCCACGAACCCC
CCTGGCCTCACTGGGGTGAGCTTCTCCTCCTCGTCGTCATCGTCCTCCTCCAGCTCGCCCAGCAACGAGAACGCC
ACAAGCAACTCGTGAGCCCACGTCGGCCGTCGGGAAAGCACGGGGCCTTTCCCACCCACCCTCAGCCAGCGCCAC
ACGGCACCCACAGACTGGGTGCCCCGGCGGCGCCACGCTTGGCTGGTCAGCGCTGCAGGTCCCGCCTGTTCCAGG
GCAGGACCCGGGCCCGGCCCACCGGCCCCCTGGCTTGGGAAGGCGTGGGCCACATGGTCCCCTCTGGGGCGTCCC
CAGCCTCCCCGTCCTCTGTCTAACCTCACCCTCTAAACGTTCAGCGGTGGAAAGATTTTTATAATTTTAAATTAT
TACTGCTTTGAAATAAACGGACGTTTGAGCTCACGTGGCGGCCATGCATGGTTTGTGGCGGAAGACGGGGCCCAG
CGGCTCCCCCAGCGCTGAAGCACGGGGTTCAGCGGCTCCCCCAGTGCTGCAGGTGCCGCCAGGACGGGCCACGTG
GGCCCCCAGCCTCCCCCTCGGCCGCCTCCACGACCCGGAGTAGGGGGGCTCGGGACCATGAGGATGACCAGCAAA
ATTCAAGAACAAAACTGCTCCAACAGACTTTTTTAAAGGAAAAAATATGTGTATCTTGAAAGCTATTTAAAATAC
ACTACTTACAAAGAAAAAAAAAAAAAAAAAA
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5533/6881
FIGURE 5099

MAEASPHPGRYFCHCCSVEIVPRLPDYICPRCESGFIEELPEETRSTENGSAPSTAPTDQSRPPLEHVDQHLFTL
PQGYGQFAFGIFDDSFEIPTFPPGAQADDGRDPESRRERDHPSRHRYGARQPRARLTTRRATGRHEGVPTLEGII
QQLVNGIITPATIPSLGPWGVLHSNPMDYAWGANGLDAIITQLLNQFENTGPPPADKEKIQALPTVPVTEEHVGS
GLECPVCKDDYALGERVRQLPCNHLFHDGCIVPWLEQHDSCPVCRKSLTGQNTATNPPGLTGVSFSSSSSSSSSS
SPSNENATSNS

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FIGURE 5100

CTTGTGAGTCTATAACTCGGAGCCGTTGGGTCGGTTCCTGCTATTCCGGCGCCTCCACTCCGTCCCCCGCGGGTC
TGCTCTGTGTGCC**ATG**GACGGCATTGTCCCAGATATAGCCGTTGGTACAAAGCGGGGATCTGACGAGCTTTTCTC
TACTTGTGTCACTAACGGACCGTTTATCATGAGCAGCAACTCGGCTTCTGCAGCAAACGGAAATGACAGCAAGAA
GTTCAAAGGTGACAGCCGAAGTGCAGGCGTCCCCTCTAGAGTGATCCACATCCGGAAGCTCCCCATCGACGTCAC
GGAGGGGGAAGTCATCTCCCTGGGGCTGCCCTTTGGGAAGGTCACCAACCTCCTGATGCTGAAGGGGAAAAACCA
GGCCTTCATCGAGATGAACACGGAGGAGGCTGCCAACACCATGGTGAACTACTACACCTCGGTGACCCCTGTGCT
GCGCGGCCAGCCCATCTACATCCAGTTCTCCAACCACAAGGAGCTGAAGACCGACAGCTCTCCCAACCAGGCGCG
GGCCCAGGCGGCCCTGCAGGCGGTGAACTCGGTCCAGTCGGGGGAACCTGGCCTTGGCTGCCTCGGCGGCGGCCGT
GGACGCAGGGATGGCGATGGCCGGGCAGAGCCCCGTGCTCAGGATCATCGTGGAGAACCTCTTCTACCCTGTGAC
CCTGGATGTGCTGCACCAGATTTTCTCCAAGTTCGGCACAGTGTTGAAGATCATCACCTTCACCAAGAACAACCA
GTTCCAGGCCCTGCTGCAGTATGCGGACCCCGTGAGCGCCCAGCACGCCAAGCTGTCGCTGGACGGGCAGAACAT
CTACAACGCCTGCTGCACGCTGCGCATCGACTTTTCCAAGCTCACCAGCCTCAACGTCAAGTACAACAATGACAA
GAGCCGTGACTACACACGCCCAGACCTGCCTTCCGGGGACAGCCAGCCCTCGCTGGACCAGACCATGGCCGCGGC
CTTCGCCTCTCCGTATGCAGGAGCTGGTTTCCCTCCCACCTTTGCCATTCCTCAAGCTGCAGGCCTTTCCGTTCC
GAACGTCCACGGCGCCCTGGCCCCCCTGGCCATCCCCTCGGCGGCGGCGGCAGCTGCGGCGGCAGGTCGGATCGC
CATCCCGGGCCTGGCGGGGGCAGGAAATTCTGTATTGCTGGTCAGCAACCTCAACCCAGAGAGAGTCACACCCCA
AAGCCTCTTTATTCTTTTCGGCGTCTACGGTGACGTGCAGCGCGTGAAGATCCTGTTCAATAAGAAGGAGAACGC
CCTAGTGCAGATGGCGGACGGCAACCAGGCCCAGCTGGCCATGAGCCACCTGAACGGGCACAAGCTGCACGGGAA
GCCCATCCGCATCACGCTCTCGAAGCACCAGAACGTGCAGCTGCCCCGCGAGGGCCAGGAGGACCAGGGCCTGAC
CAAGGACTACGGCAACTCACCCCTGCACCGCTTCAAGAAGCCGGGCTCCAAGAACTTCCAGAACATATTCCCGCC
CTCGGCCACGCTGCACCTCTCCAACATCCCGCCCTCAGTCTCCGAGGAGGATCTCAAGGTCCTGTTTTCCAGCAA
TGGGGGCGTCGTCAAAGGATTCAAGTTCTTCCAGAAGGACCGCAAGATGGCACTGATCCAGATGGGCTCCGTGGA
GGAGGCGGTCCAGGCCCTCATTGACCTGCACAACCACGACCTCGGGGAGAACCACCACCTGCGGGTCTCCTTCTC
CAAGTCCACCATC**TAG**GGGCACAGGCCCCCACGGCCGGGCCCCCTGGCGACAACTTCCATCATTCCAGAGAAAAG
CCACTTTAAAAACAGCTGAAGTGACCTTAGCAGACCAGAGATTTTATTTTTTTAAAGAGAAATCAGTTTACCTGT
TTTTAAAAAAATTAAATCTAGTTCACCTTGCTCACCCTGCGGTGACAGGGACAGCTCAGGCTCTTGGTGACTGTG
GCAGCGGGAGTTCCCGGCCCTCCACACCCGGGGCCAGACCCTCGGGGCCATGCCTTGGTGGGGCCTGTGTCGGGC
GTGGGGCCTGCAGGTGGGCGCCCCGACCACGACTTGGCTTCCTTGTGCCTTAAAAAACCTGCCTTCCTGCAGCCA
CACACCCACCCGGGGTGTCCTGGGGACCCAAGGGGTGGGGGGGTCACACCAGAGAGAGGCAGGGGGCCTGGCCGG
CTCCTGCAGGATCATGCAGCTGGGGCGCGGCGGCCGCGGCTGCGACACCCCAACCCCAGCCCTCTAATCAAGTCA
CGTGATTCTCCCTTCACCCCGCCCCCAGGGCCTTCCCTTCTGCCCCCAGGCGGGCTCCCCGCTGCTCCAGCTGCG
GAGCTGGTCGACATAATCTCTGTATTATATACTTTGCAGTTGCAGACGTCTGTGCCTAGCAATATTTCCAGTTGA
CCAAATATTCTAATCTTTTTTCATTTATATGCAAAAGAAATAGTTTTAAGTAACTTTTTATAGCAAGATGATACA
ATGGTATGAGTGTAATCTAAACTTCCTTGTGGTATTACCTTGTATGCTGTTACTTTTATTTTATTCCTTGTAATT
AAGTCACAGGCAGGACCCAGTTTCCAGAGAGCAGGCGGGCCGCCCAGTGGGTCAGGCACAGGGAGCCCCGGTCC
TATCTTAGAGCCCCTGAGCTTCAGGGAAGGGGCGGGCGTGTCGCCGCCTCTGGCATCGCCTCCGGTTGCCTTACA
CCACGCCTTCACCTGCAGTCGCCTAGAAAACTTGCTCTCAAACTTCAGGGTTTTTTCTTCCTTCAAATTTTGGAC
CAAAGTCTCATTTCTGTGTTTTGCCTGCCTCTGATGCTGGGACCCGGAAGGCGGGCGCTCCTCCTGTCTTCTCTG
TGCTCTTTCTACCGCCCCGCGTCCTGTCCCGGGGGCTCTCCTAGGATCCCCTTTCCGTAAAAGCGTGTAACAAG
GGTGTAAATATTTATAATTTTTTATACCTGTTGTGAGACCCGAGGGGCGGCGGCGCGGTTTTTTATGGTGACACA
AATGTATATTTTGCTAACAGCAATTCCAGGCTCAGTATTGTGACCGCGGAGCCACAGGGGACCCCACGCACATTC
CGTTGCCTTACCCGATGGCTTGTGACGCGGAGAGAACCGATTAAAACCGTTTGAGAAACTCCTCCCTTGTCTAGC
CCTGTGTTCGCTGTGGACGCTGTAGAGGCAGGTTGGCCAGTCTGTACCTGGACTTCGAATAAATCTTCTGTATCC
TCGCTCCGTTCCGCCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
A

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FIGURE 5101

MDGIVPDIAVGTKRGSDELFSTCVTNGPFIMSSNSASAANGNDSKKFKGDSRSAGVPSRVIHIRKLPIDVTEGEV
ISLGLPFGKVTNLLMLKGKNQAFIEMNTEEAANTMVNYYTSVTPVLRGQPIYIQFSNHKELKTDSSPNQARAQAA
LQAVNSVQSGNLALAASAAAVDAGMAMAGQSPVLRIIVENLFYPVTLDVLHQIFSKFGTVLKIITFTKNNQFQAL
LQYADPVSAQHAKLSLDGQNIYNACCTLRIDFSKLTSLNVKYNNDKSRDYTRPDLPSGDSQPSLDQTMAAAFASP
YAGAGFPPTFAIPQAAGLSVPNVHGALAPLAIPSAAAAAAAAGRIAIPGLAGAGNSVLLVSNLNPERVTPQSLFI
LFGVYGDVQRVKILFNKKENALVQMADGNQAQLAMSHLNGHKLHGKPIRITLSKHQNVQLPREGQEDQGLTKDYG
NSPLHRFKKPGSKNFQNIFPPSATLHLSNIPPSVSEEDLKVLFSSNGGVVKGFKFFQKDRKMALIQMGSVEEAVQ
ALIDLHNHDLGENHHLRVSFSKSTI

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FIGURE 5102

CTTGTGAGTCTATAACTCGGAGCCGTTGGGTCGGTTCCTGCTATTCCGGCGCCTCCACTCCGTCCCCCGCGGGTC
TGCTCTGTGTGCC**ATG**GACGGCATTGTCCCAGATATAGCCGTTGGTACAAAGCGGGGATCTGACGAGCTTTTCTC
TACTTGTGTCACTAACGGACCGTTTATCATGAGCAGCAACTCGGCTTCTGCAGCAAACGGAAATGACAGCAAGAA
GTTCAAAGGTGACAGCCGAAGTGCAGGCGTCCCCTCTAGAGTGATCCACATCCGGAAGCTCCCCATCGACGTCAC
GGAGGGGGAAGTCATCTCCCTGGGGCTGCCCTTTGGGAAGGTCACCAACCTCCTGATGCTGAAGGGGAAAAACCA
GGCCTTCATCGAGATGAACACGGAGGAGGCTGCCAACACCATGGTGAACTACTACACCTCGGTGACCCCTGTGCT
GCGCGGCCAGCCCATCTACATCCAGTTCTCCAACCACAAGGAGCTGAAGACCGACAGCTCTCCCAACCAGGCGCG
GGCCCAGGCGGCCCTGCAGGCGGTGAACTCGGTCCAGTCGGGGAACCTGGCCTTGGCTGCCTCGGCGGCGGCCGT
GGACGCAGGGATGGCGATGGCCGGGCAGAGCCCCGTGCTCAGGATCATCGTGGAGAACCTCTTCTACCCTGTGAC
CCTGGATGTGCTGCACCAGATTTTCTCCAAGTTCGGCACAGTGTTGAAGATCATCACCTTCACCAAGAACAACCA
GTTCCAGGCCCTGCTGCAGTATGCGGACCCCGTGAGCGCCCAGCACGCCAAGCTGTCGCTGGACGGGCAGAACAT
CTACAACGCCTGCTGCACGCTGCGCATCGACTTTTCCAAGCTCACCAGCCTCAACGTCAAGTACAACAATGACAA
GAGCCGTGACTACACACGCCCAGACCTGCCTTCCGGGGACAGCCAGCCCTCGCTGGACCAGACCATGGCCGCGGC
CTTCGGTGCACCTGGTATAATCTCAGCCTCTCCGTATGCAGGAGCTGGTTTCCCTCCCACCTTTGCCATTCCTCA
AGCTGCAGGCCTTTCCGTTCCGAACGTCCACGGCGCCCTGGCCCCCCTGGCCATCCCCTCGGCGGCGGCGGCAGC
TGCGGCGGCAGGTCGGATCGCCATCCCGGGCCTGGCGGGGGCAGGAAATTCTGTATTGCTGGTCAGCAACCTCAA
CCCAGAGAGAGTCACACCCCAAAGCCTCTTTATTCTTTTCGGCGTCTACGGTGACGTGCAGCGCGTGAAGATCCT
GTTCAATAAGAAGGAGAACGCCCTAGTGCAGATGGCGGACGGCAACCAGGCCCAGCTGGCCATGAGCCACCTGAA
CGGGCACAAGCTGCACGGGAAGCCCATCCGCATCACGCTCTCGAAGCACCAGAACGTGCAGCTGCCCCGCGAGGG
CCAGGAGGACCAGGGCCTGACCAAGGACTACGGCAACTCACCCCTGCACCGCTTCAAGAAGCCGGGCTCCAAGAA
CTTCCAGAACATATTCCCGCCCTCGGCCACGCTGCACCTCTCCAACATCCCGCCCTCAGTCTCCGAGGAGGATCT
CAAGGTCCTGTTTTCCAGCAATGGGGGCGTCGTCAAAGGATTCAAGTTCTTCCAGAAGGACCGCAAGATGGCACT
GATCCAGATGGGCTCCGTGGAGGAGGCGGTCCAGGCCCTCATTGACCTGCACAACCACGACCTCGGGGAGAACCA
CCACCTGCGGGTCTCCTTCTCCAAGTCCACCATC**TAG**GGGCACAGGCCCCCACGGCCGGGCCCCCTGGCGACAAC
TTCCATCATTCCAGAGAAAAGCCACTTTAAAAACAGCTGAAGTGACCTTAGCAGACCAGAGATTTTATTTTTTTA
AAGAGAAATCAGTTTACCTGTTTTTAAAAAAATTAAATCTAGTTCACCTTGCTCACCCTGCGGTGACAGGGACAG
CTCAGGCTCTTGGTGACTGTGGCAGCGGGAGTTCCCGGCCCTCCACACCCGGGGCCAGACCCTCGGGGCCATGCC
TTGGTGGGGCCTGTGTCGGGCGTGGGGCCTGCAGGTGGCGCCCCGACCACGACTTGGCTTCCTTGTGCCTTAAA
AAACCTGCCTTCCTGCAGCCACACACCCACCCGGGGTGTCCTGGGGACCCAAGGGGTGGGGGGGTCACACCAGAG
AGAGGCAGGGGGCCTGGCCGGCTCCTGCAGGATCATGCAGCTGGGGCGCGGCGGCCGCGGCTGCGACACCCCAAC
CCCAGCCCTCTAATCAAGTCACGTGATTCTCCCTTCACCCCGCCCCCAGGGCCTTCCCTTCTGCCCCCAGGCGGG
CTCCCCGCTGCTCCAGCTGCGGAGCTGGTCGACATAATCTCTGTATTATATACTTTGCAGTTGCAGACGTCTGTG
CCTAGCAATATTTCCAGTTGACCAAATATTCTAATCTTTTTTCATTTATATGCAAAAGAAATAGTTTTAAGTAAC
TTTTTATAGCAAGATGATACAATGGTATGAGTGTAATCTAAACTTCCTTGTGGTATTACCTTGTATGCTGTTACT
TTTATTTTATTCCTTGTAATTAAGTCACAGGCAGGACCCAGTTTCCAGAGAGCAGGCGGGGCCGCCCAGTGGGTC
AGGCACAGGGAGCCCCGGTCCTATCTTAGAGCCCCTGAGCTTCAGGGAAGGGGCGGGCGTGTCGCCGCCTCTGGC
ATCGCCTCCGGTTGCCTTACACCACGCCTTCACCTGCAGTCGCCTAGAAAACTTGCTCTCAAACTTCAGGGTTTT
TTCTTCCTTCAAATTTTGGACCAAAGTCTCATTTCTGTGTTTTGCCTGCCTCTGATGCTGGGACCCGGAAGGCGG
GCGCTCCTCCTGTCTTCTCTGTGCTCTTTCTACCGCCCCCGCGTCCTGTCCCGGGGGCTCTCCTAGGATCCCCTT
TCCGTAAAAGCGTGTAACAAGGGTGTAAATATTTATAATTTTTTATACCTGTTGTGAGACCCGAGGGGCGGCGGC
GCGGTTTTTTATGGTGACACAAATGTATATTTTGCTAACAGCAATTCCAGGCTCAGTATTGTGACCGCGGAGCCA
CAGGGGACCCCACGCACATTCCGTTGCCTTACCCGATGGCTTGTGACGCGGAGAGAACCGATTAAAACCGTTTGA
GAAACTCCTCCCTTGTCTAGCCCTGTGTTCGCTGTGGACGCTGTAGAGGCAGGTTGGCCAGTCTGTACCTGGACT
TCGAATAAATCTTCTGTATCCTCGCTCCGTTCCGCCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 5103

MDGIVPDIAVGTKRGSDELFSTCVTNGPFIMSSNSASAANGNDSKKFKGDSRSAGVPSRVIHIRKLPIDVTEGEV
ISLGLPFGKVTNLLMLKGKNQAFIEMNTEEAANTMVNYYTSVTPVLRGQPIYIQFSNHKELKTDSSPNQARAQAA
LQAVNSVQSGNLALAASAAAVDAGMAMAGQSPVLRIIVENLFYPVTLDVLHQIFSKFGTVLKIITFTKNNQFQAL
LQYADPVSAQHAKLSLDGQNIYNACCTLRIDFSKLTSLNVKYNNDKSRDYTRPDLPSGDSQPSLDQTMAAAFGAP
GIISASPYAGAGFPPTFAIPQAAGLSVPNVHGALAPLAIPSAAAAAAAGRIAIPGLAGAGNSVLLVSNLNPERV
TPQSLFILFGVYGDVQRVKILFNKKENALVQMADGNQAQLAMSHLNGHKLHGKPIRITLSKHQNVQLPREGQEDQ
GLTKDYGNSPLHRFKKPGSKNFQNIFPPSATLHLSNIPPSVSEEDLKVLFSSNGGVVKGFKFFQKDRKMALIQMG
SVEEAVQALIDLHNHDLGENHHLRVSFSKSTI

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FIGURE 5104

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GCATGCCCCATCAGCCTTCAGCTTGAGCCCGGCGGCCCCCGCCCCCGCCCCCTGCCACCCTGCACTGCCCCGGCT
CCCCCGCGGCCCCCACGCTGCAGTGCGGCCGGGCCCCCTCCCCGCAGGGGCCGCCCCCGCCGCCCACCCCTAGCG
CCCGTGGTGGTGGTGGTGGTGGTGGTGGTGGCCCGGGCCGCAGGGCCATGAAACTACAGGCCGTGATGGAGA
CGCTGTTGCAGCGGCAGCAGCGGGCGCGCCAGGAGCTGGAGGCCCGGCAGCAGCTGCCCCCCGATCCCCCTGCTG
CACCCCCCGGCCGGGCCCGGGCTGCCCCCGACGAGGACAGAGAGCCCGAGAGTGCCCGGATGCAGCGGGCTCAGA
TGGCCGCACTGGCAGCCATGCGGGCTGCAGCTGCGGGCCTGGGACACCCAGCCAGCCCCGGCGGCTCTGAGGATG
GGCCCCCAGGCTCGGAGGAGGAGGACGCGGCCCGGGAGGGGACACCGGGCTCACCCGGGCGAGGCAGAGAAGGGC
CAGGAGAGGAGCACTTTGAGGACATGGCCTCCGACGAGGACATGAAGCCCAAATGGGAGGAGGAGGAGATGGAGG
AAGACCTCGGGGAGGATGAGGAGGAGGAGGAGGAGGATTACGAGGATGAGGAGGAGGAGGAGGACGAGGAGGGGC
TGGGCCCCCCAGGCCCTGCCAGCTTGGGCACCACGGCACTGTTCCCCCGAAAGGCCCAGCCACCCCAGGCCTTCC
GCGGCGATGGCGTTCCCAGGGTGCTGGGGGGCCAGGAGCGGCCGGGGCCTGGCCCTGCCCACCCCGGAGGGGCCG
CCCACGTAGCCCCGCAGCTGCAGCCGCCTGACCACGGCGACTGGACTTACGAGGAGCAGTTTAAGCAGCTCTACG
AACTCGACGGGGACCCCAAGAGGAAGGAATTCCTGGATGACTTGTTCAGCTTCATGCAGAAGCGAGGGACACCTG
TGAACCGCATCCCCATCATGGCCAAACAGGTCCTTGACCTGTTCATGCTGTACGTGCTGGTGACGGAGAAGGGCG
GCCTCGTGGAGGTCATCAACAAGAAGCTGTGGCGTGAGATCACCAAGGGCCTCAACCTGCCCACGTCCATCACCA
GTGCAGCCTTCACCCTGCGGACCCAATACATGAAGTACCTGTACCCCTACGAGTGTGAGAAGCGGGGCCTCAGTA
ACCCCAATGAGCTCCAGGCAGCCATAGACAGCAACCGACGGGAGGGCCGGCGCCAGAGCTTTGGTGGCTCCCTCT
TTGCCTACTCGCCAGGCGGGGCACACGGCATGCTCTCCTCACCCAAGCTACCCGTGTCCTCCCTGGGCCTGGCCG
CAAGCACCAATGGCAGCTCCATCACCCCCGCCCCTAAGATCAAGAAAGAGGAGGACTCAGCCATCCCCATCACAG
TCCCTGGCCGCCTGCCTGTGTCCCTGGCGGGCCACCCTGTGGTGGCAGCCCAGGCAGCAGCTGTGCAAGCAGCAG
CCGCCCAAGCAGCTGTGGCCGCACAGGCAGCTGCCCTGGAACAGCTGCGGGAGAAGCTGGAGTCTGCAGAGCCTC
CGGAGAAGAAGATGGCCCTGGTGGCCGATGAGCAGCAACGGCTGATGCAACGTGCACTCCAGCAGAACTTCCTGG
CCATGGCGGCCCAGCTGCCCATGAGCATTCGGATCAACAGCCAAGCCTCCGAAAGCCGCCAGGACTCTGCTGTGA
ACCTGACGGGCACCAACGGCAGCAACAGCATCAGCATGTCGGTGGAGATCAACGGCATCATGTACACAGGAGTTC
TGTTTGCTCAGCCGCCGGCCCCCACGCCAACCTCTGCTCCCAACAAAGGAGGCGGCGGCGGCGGCAGCAGCA
GCAACGCAGGCGGCCGGGGAGGAAACACCGGAACCAGCGGCGGCCAGGCTGGGCAGCGGGGCTGTCCACACCCT
CCACATCTACCTCAAATAACTCGTTGCCTTAACCGCATCACTCCCCACCCGCCACCCACCCTGGAGCCCGCCGGC
CTGGGCAGGGGGTCCAGGTGGGCCACACAGGGGCCAGGATGGCGGAAGATACGGGTGGGGAGGGAAGATATCCAG
AAAGGAGCCACAGCTGACGCCAAAAAGAAAAGAAAAAAGATATATATATATATATATATATATATACGTATATAT
ATAAAGAAGAATTTAATAAAACAGGGGAAAACCAAGGAACACTTGAATTTCTCAGGTTTTGGACATTCAGAGAGA
TGAATTGTGAGAACAGCAAAGAAATCCATCAGAAAAACAGAAAGAGGCAGACGTTTCCCAGGGCGTTCAGGCAGC
CCTGATGGACCGAAGGCTCTGGTGTCTGGTTTGGCCCCACAGCAGTGTGGGCCGATCCTGTTTACCTCATACATC
CCTGCACTGTGTGTTTTCATTTTTGTCTGCTTTAGTTCTCTTTTATTTTCTATTCACCACACACTCACCACTCCC
AGCTTCTCGTGTCCAGTGAAACCCCTGAACCAAGATCACTGAATTTTTGTTTTTTTCTTGTTGCTTTGGGAAATT
TTTTTTTCTCTGTAGGGTTTTTAAGAGGTTTCGGGGGTTTTGTTGTGTAAATATTCTATTTTATTCTTGGGGGGA
TCAAACCTTAGGAAAAGGATATCTATATATCTATATAGCTATATATTTGTGTTCCTTCAGGGAAACTGGTCTTGA
AAAAGCAAGAAAAAAAGCAAAAAA
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FIGURE 5105

MKLQAVMETLLQRQQRARQELEARQQLPPDPPAAPPGRARAAPDEDREPESARMQRAQMAALAAMRAAAAGLGHP
ASPGGSEDGPPGSEEEDAAREGTPGSPGRGREGPGEEHFEDMASDEDMKPKWEEEEMEEDLGEDEEEEEEDYEDE
EEEEDEEGLGPPGPASLGTTALFPRKAQPPQAFRGDGVPRVLGGQERPGPGPAHPGGAAHVAPQLQPPDHGDWTY
EEQFKQLYELDGDPKRKEFLDDLFSFMQKRGTPVNRIPIMAKQVLDLFMLYVLVTEKGGLVEVINKKLWREITKG
LNLPTSITSAAFTLRTQYMKYLYPYECEKRGLSNPNELQAAIDSNRREGRRQSFGGSLFAYSPGGAHGMLSSPKL
PVSSLGLAASTNGSSITPAPKIKKEEDSAIPITVPGRLPVSLAGHPVVAAQAAAVQAAAAQAAVAAQAAALEQLR
EKLESAEPPEKKMALVADEQQRLMQRALQQNFLAMAAQLPMSIRINSQASESRQDSAVNLTGTNGSNSISMSVEI
NGIMYTGVLFAQPPAPTPTSAPNKGGGGGGGSSSNAGGRGGNTGTSGGQAGPAGLSTPSTSTSNNSLP

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FIGURE 5106

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GGCAAGATGGCGGCGCCCATGGAGGTGGCCGTGTGTACGGACTCGGCGGCCCCGATGTGGAGCTGCATCGTGTGG
GAACTTCACTCGGGCGCCAACCTGCTCACCTACCGCGGCGGCCAGGCGGGACCCCGCGGCCTGGCGCTGCTCAAT
GGCGAGTATCTGCTGGCGGCGCAGCTGGGCAAGAATTACATCAGCGCCTGGGAGCTCCAGCGGAAGGACCAGCTC
CAGCAGAAGATCATGTGCCCCGGGCCTGTCACCTGTCTGACTGCATCACCCAATGGTCTCTACGTCCTGGCAGGA
GTTGCAGAAAGCATCCACCTGTGGGAGGTCTCCACCGGGAACCTTCTGGTCATCCTGAGTCGACACTACCAGGAC
GTCTCCTGCCTTCAGTTCACAGGGGACAGCAGCCACTTCATCTCAGGGGGCAAGGACTGCCTGGTGCTGGTTTGG
AGCCTCTGCAGCGTGCTGCAGGCCGACCCCTCCAGGATTCCGGCGCCCAGGCACGTCTGGTCTCACCACGCGCTC
CCCATCACGGACCTGCACTGCGGCTTTGGGGGCCCCCTGGCCCGGGTGGCCACCTCCTCACTGGACCAGACGGTG
AAGCTATGGGAGGTCTCCTCGGGGGAGCTGCTGCTCTCCGTCCTCTTTGACGTGTCCATCATGGCAGTGACCATG
GACCTGGCTGAGCACCATATGTTCTGCGGGGGCAGTGAGGGCTCCATCTTCCAGGTCGACCTCTTCACCTGGCCC
GGACAGAGGGAGAGGAGCTTCCACCCAGAGCAGGACGCCGGGAAGGTCTTCAAAGGGCACAGGAACCAGGTGACT
TGCCTGTCAGTGTCCACTGACGGCAGCGTGCTGCTCTCAGGCTCCCACGACGAGACCGTGCGCCTCTGGGACGTG
CAGAGCAAGCAGTGCATCCGGACGGTGGCCCTCAAAGGCCCAGTCACCAATGCCGCCATCCTGCTGGCGCCCGTC
AGCATGCTGAGCTCAGACTTCAGGCCCAGCCTGCCGCTGCCCCACTTCAACAAGCACCTGCTGGGCGCCGAGCAC
GGGGACGAGCCGCGCCACGGGGGCCTCACTCTGCGCCTGGGCCTCCACCAGCAGGGCTCGGAGCCCAGCTACCTG
GACCGCACGGAGCAGCTGCAGGCCGTCCTGTGCAGCACCATGGAGAAGAGCGTGCTCGGCGGCCAGGACCAGCTG
CGCGTCCGTGTGACGGAGCTGGAGGACGAGGTGCGCAACCTGCGCAAGATCAATCGGGACCTGTTCGACTTCTCC
ACGCGCTTCATCACGCGGCCGGCCAAGTGAGGCCCGGAGACCCCGGCCCGAGGCGCCCAGGCCTGAGCCCCATGC
CTCCCAGCAACCAGGGCCCGCGGGTGTGGCCCCCACCAGCCCAGGCCTGGACTCTCCTCAGTTCTGTGTCGTGTT
CGGGTTTTTCCTCTGTGACTGGGCCGTCTTGGTGTCTCGTGGCACGCGTCACAGTGGTGCTAGTCTGTTTTTAAC
AAAAGAGGATGAAAAGCC
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FIGURE 5107

MAAPMEVAVCTDSAAPMWSCIVWELHSGANLLTYRGGQAGPRGLALLNGEYLLAAQLGKNYISAWELQRKDQLQQ
KIMCPGPVTCLTASPNGLYVLAGVAESIHLWEVSTGNLLVILSRHYQDVSCLQFTGDSSHFISGGKDCLVLVWSL
CSVLQADPSRIPAPRHVWSHHALPITDLHCGFGGPLARVATSSLDQTVKLWEVSSGELLLSVLFDVSIMAVTMDL
AEHHMFCGGSEGSIFQVDLFTWPGQRERSFHPEQDAGKVFKGHRNQVTCLSVSTDGSVLLSGSHDETVRLWDVQS
KQCIRTVALKGPVTNAAILLAPVSMLSSDFRPSLPLPHFNKHLLGAEHGDEPRHGGLTLRLGLHQQGSEPSYLDR
TEQLQAVLCSTMEKSVLGGQDQLRVRVTELEDEVRNLRKINRDLFDFSTRFITRPAK

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FIGURE 5108

ATGAGCTCCACGCAGTTCAACAAGGGCCCCTCGTACGGGCTGTCGGCCGAGGTCAAGAACCGGGCTCCCGCGAAT
CTTGGGGAGCACCCAGGTCTGAGATCTGGGGGACGAGTGACCCATTCCCCCCCCCAACATCTAGGGGTAGTTGGG
TCTGACTTCGTCCCCTCGCCATGGCCCCAGGACCCCCACGTGTCCTTACAGCTGACTTCTGCAGGGGAAACTGCC
TCTGCACGCTCTGAGGGCACCGGCCCTGCCAGCCCCAACAGCCACCTGCCCGGCGGCACTCCAGGGCCGGCAGAC
TGGAGGGAGAATTCCTGCTTCCCCGCTGGGCCATCTGCACCCTGCATTCATAGAGCCCCCCGTGCAGTGGGGTGG
GCACCCTGCCGCACCCTGCATACAGCCGGCTAA

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FIGURE 5109

ACCAGCTCCTGTCCAAATATGACCCCCAGAAGGAGGCAGAGCTCCGCACCTGGATCGAGGGACTCACCGGCCTCT
CCATCGGCCCCGACTTCCAGAAGGGCCTGAAGGATGGAACTATCTTATGCACACTCATGAACAAGCTACAGCCGG
GCTCCGTCCCCAAGATCAACCGCTCCATGCAGAACTGGCACCAGCTAGAAAACCTGTCCAACTTCATCAAGGCCA
TGGTCAGCTACGGCATGAACCCTGTGGACCTGTTCGAGGCCAACGACCTGTTTGAGAGTGGGAACATGACGCAGG
TGCAGGTGTCTCTTCTCGCCCTGGCGGGGAAGGCCAAGACTAAGGGGCTGCAGAGCGGGGTGGACATTGGCGTCA
AGTACTCGGAGAAGCAGGAGCGGAATTTCGACGATGCCACCATGAAGGCTGGCCAGTGCGTCATCGGGCTGCAGA
TGGGCACCAACAAATGCGCCAGCCAGTCGGGCATGACTGCCTACGGCACGAGAAGGCATCTCTATGACCCCAAGA
ACCATATCCTGCCCCCCATGGACCACTCGACCATCAGCCTCCAGATGGGCACGAACAAGTGTGCCAGCCAGGTGG
GCATGACGGCTCCCGGGACCCGGCGGCACATCTATGATACCAAGCTGGGAACCGACAAGTGTGACAACTCCTCCA
TGTCCCTGCAGATGGGCTACACGCAGGGCGCCAACCAGAGCGGCCAGGTCTTCGGCCTGGGCCGGCAGATATATG
ACCCCAAGTACTGCCCGCAAGGCACAGTGGCCGATGGGGCTCCCTCGGGCACCGGCGACTGCCCGGACCCGGGGG
AGGTCCCTGAATATCCCCCTTACTACCAGGAGGAGGCCGGCTACTGAGGCTCCCAGCACGCTCTCTCCCCACATC
GTCTGCCCATCTGGGTTTTTGGGTTTTTCTGTGTTTTCATCTTTTTTTTTTTTTCTTAACCCGTTCAGTGCTGC
CAGTCAACCAAGGGTCTGTGAGTGTCAGCGTGGATCAGGCAGCAGAGCTTTTTTCCCCTTTGCCTTGATCCTTC
GCAAGGCTGAGCCACTGGGCTGTGGGGGAAGGGGTCAAGGCCATATCCCAATACGTGTAGGGCGAGGGTCCCTGC
TGGCACATTCAGGCTGTGCTGGGAAGAAGAGACCTGGGCTTGGAAGGAACCGGTCCCCGACGGTTTCTGCTTGCC
TCGCCTCTTCCCCCTTTTGTCAGCTGAGCAGTTTGTGGTTTCTATGCCCGCAAGTTTCAGGAAGTATTCACAAAA
GAAAAATACATTTTTTCCCCCAGGGGTGGGGCAAGGACAGTGGAGAGAGTGCTAGGAAATGAGTCCCCTGGGAAA
GGGGACCGGGCCGTGATGTTAAATATCTCCGGCTCCCAAGTGACTGGATTTGCCTAGGACCTTCAGACCAACAGA
CTTCAGACCCTCAGACCTGCCCCGGGGCCAGGTGGAGAAAGTGAGGGCCGTACAAGGAAGTGAAATTCTGAGTTG
TTGGGGCTAAGCCTGACCCCCTCTCCATGCTCCCCGCCCCAACCCACTCTGGCCTCAGTAGATTTTTTTTTCAGT
TGTGGTTGTTGCCCAGGCTGGAGTGCAGTGGCGCCATCTTGGCTCACTGCACCTCCACCTTCCGGGCTCAAGCGA
TTCTCCAGCCTCAGCCTCCTGAGTAGCTAGGACTGCAGGTGCTCCACCACGCCCGGCTAATTTTTGTATTTTTAG
TAGAGATGGGGTTTCCCCATGTTGGCCAGGCTGGTCTCGAACTCCTGGCCTCAGGTGTGATCCGCCCGCCTCCGC
CTCCCCAAGCGCTGAGATTACAGGTGTGAGCCACCGTGCCCAGCCCCTCAGTAGGTTTTAAGGAGCCCCCAGCCC
TCCTCCCTTCTGGGCCCGACCAGCTTATACTGCTCCATCTTCCCCGGCCACATGCCCGCCAAGTACTGCACAGG
GACCCCCCACCCAGGGGACCTGCTCCGTGAGATAATGTGAAATACGACTGTGGACCAAACGCAATAAAACCTCTG
TTTGTACGAAG

5544/6881
FIGURE 5110

GGCGGCGGCGGCGGAGGCTGCCATGGACGACGAGGAGGAGACGTACCGGCTCTGGAAAATCCGCAAGACCATCAT
GCAGCTGTGCCACGACCGTGGCTATCTGGTGACCCAGGACGAGCTTGACCAGACCCTGGAGGAGTTCAAAGCCCA
ATCTGGGGACAAGCCGAGTGAGGGGCGGCCGCGGCGCACGGACCTCACCGTGCTGGTGGCCCACAACGATGACCC
CACCGACCAGATGTTTGTGTTCTTTCCAGAGGAGCCCAAGGTGGGCATCAAGACCATCAAGGTGTACTGCCAGCG
CATGCAGGAGGAGAACATCACACGGGCTCTCATCGTGGTGCAGCAGGGCATGACACCCTCCGCCAAGCAGTCCCT
GGTCGACATGGCCCCCAAGTACATCCTGGAGCAGTTTCTGCAGCAGGAGCTGCTCATCAACATCACGGAGCACGA
GCTAGTCCCTGAGCACGTCGTCATGACCAAGGAGGAGGTGACAGAGCTGCTGGCCCGATATAAGCTCCGAGAGAA
CCAGCTGCCCAGGATCCAGGCGGGGGACCCTGTGGCGCGCTACTTTGGGATAAAGCGTGGGCAGGTGGTGAAGAT
CATCCGGCCCAGTGAGACGGCTGGCAGGTACATCACCTACCGGCTGGTGCAGTAGCTACCGCCTGACAGCCCCTA
GAGGCGGACACACAGCGACCCCCATCCCTGCAGGACAAACGCCCCTGCCCTGCCAGAATCCGGCCCCCACAGCTC
TCACGGCTGCTGCTCCTCTGGACTCCCCAAGGCAGGTGGCCTCCACCCACGTTCTCCCGTCCTGGGGTGAGGCTT
CCTGTGGCCCAGCCCGCCCCATTCACCTGTGGATTTGTGCGAGATGCAGCCTCAGAAGGAACAAGGCCCCCAGAG
GGAGGTCACCTGGGGGCAGCTGGTGCCGGGTCTTCACCCAGACCACGCTGGGTCCCCTCTGTTGGGGGTTTGGGG
TCCGGGTCTCCCACCAGCCACTGCTTCCTCCTGGGCCCTCGGCCTTCCACCCCTCGTCTTCCCTCCCTCGGGGGC
CCTGATGCGTGGCGGCCCCCGCCCGGCCTCGGCTCTTTACTCCATTCACAGCCATGCACGCGCTCAAGCCACCAG
GGTGCGAGATGCCAGCTCTGGAGTTCTCGGTTGTTGTAGGAGGTTGGGTGTTTTCAAATGGTAAAGATGTTTTGA
GCAAATAAATTTGCTTGATACAG

5545/6881
FIGURE 5111

MDDEEETYRLWKIRKTIMQLCHDRGYLVTQDELDQTLEEFKAQSGDKPSEGRPRRTDLTVLVAHNDDPTDQMFVF
FPEEPKVGIKTIKVYCQRMQEENITRALIVVQQGMTPSAKQSLVDMAPKYILEQFLQQELLINITEHELVPEHVV
MTKEEVTELLARYKLRENQLPRIQAGDPVARYFGIKRGQVVKIIRPSETAGRYITYRLVQ

5546/6881
FIGURE 5112

CGGGGAGGCGCGGAAAGCCGACGCGCGTCCATTGGTCGGCTGGACGAGGGGAGGAGCCGCTGGCTCCCAGCCCCG
CCGCGATGAGCCTCGGCCGCCTTTGCCGCCTACTGAAGCCGGCGCTGCTCTGTGGGGCTCTGGCCGCGCCTGGCC
TGGCCGGGACCATGTGCGCGTCCCGGGACGACTGGCGCTGTGCGCGCTCCATGCACGAGTTTTCCGCCAAGGACA
TCGACGGGCACATGGTTAACCTGGACAAGTACCGGGGCTTCGTGTGCATCGTCACCAACGTGGCCTCCCAGTGAG
GCAAGACCGAAGTAAACTACACTCAGCTCGTCGACCTGCACGCCCGATACGCTGAGTGTGGTTTGCGGATCCTGG
CCTTCCCGTGTAACCAGTTCGGGAAGCAGGAGCCAGGGAGTAACGAAGAGATCAAAGAGTTCGCCGCGGGCTACA
ACGTCAAATTCGATATGTTCAGCAAGATCTGCGTGAACGGGGACGACGCCCACCCGCTGTGGAAGTGGATGAAGA
TCCAACCCAAGGGCAAGGGCATCCTGGGAAATGCCATCAAGTGGAACTTCACCAAGTTCCTCATCGACAAGAACG
GCTGCGTGGTGAAGCGCTACGGACCCATGGAGGAGCCCCTGGTGATAGAGAAGGACCTGCCCCACTATTTCTAGC
TCCACAAGTGTGTGGCCCCGCCCGAGCCCCTGCCCACGCCCTTGGAGCCTTCCACCGGCACTCATGACGGCCTGC
CTGCAAACCTGCTGGTGGGGCAGACCCGAAAATCCAGCGTGCACCCCGCCGGAGGAAGGTCCCATGGCCTGCTGG
GCTTGGCTCGGCGCCCCCACCCCTGGCTACCTTGTGGGAATAAACAGACAAATTAGAAAAAAAAAAAAAAAA

FIGURE 5113A

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GCCCGAAACCCGGAAGTGAGCGGCGGCAGCTGCGAGGCTCGGAGAAACAGGCGCCGCGGGCTCCGCGCCCGGCCG
GACCCGGGCCCGAGATCATGATGCTGCCGCCACCGCCGCCACCACGGAGCGAGAAGCCCAGATAGACGCCCCGGC
GGCCCCGGGTCCTGGAGTCCCGCCGCCTGCTGCCCGGCCGAGGACCCCACCCCGCCTGCCGCCCGATGCTTGCAG
TGGGGCCCGCCATGGACAGGGATTACCCGCAGCATGAACCCCCGCCGGCGGGCAGCCTCCTGTACAGCCCGCCGC
CCCTGCAGAGCGCCATGCTGCACTGCCCCTACTGGAACACCTTCTCGCTGCCGCCATACCCTGCCTTCTCCAGCG
ACAGCCGCCCGTTCATGAGCTCCGCCTCCTTCCTCGGCAGCCAGCCCTGCCCAGACACCAGCTATGCCCCCGTGG
CCACCGCCTCCAGCTTGCCACCAAAGACCTGCGACTTTGCTCAGGACTCCTCCTATTTTGAGGACTTCTCCAACA
TCTCCATCTTCTCCTCGTCCGTGGACTCCCTGTCGGACATCGTGGACACGCCCGACTTCCTGCCGGCTGACAGCC
TCAACCAGGTGTCCACCATCTGGGACGATAACCCTGCCCCCTCCACCCACGATAAGCTGTTCCAGCTCAGCAGGC
CGTTTGCAGGCTTCGAGGACTTTCTGCCCTCCCACAGCACCCCGCTTCTCGTCAGCTACCAGGAGCAGAGTGTGC
AGAGCCAGCCAGAGGAGGAGGACGAGGCTGAGGAGGAGGAGGCGGAGGAGCTGGGGCACACAGAGACCTACGCCG
ACTACGTGCCGTCCAAGTCCAAGATCGGGAAGCAGCACCCAGACCGCGTGGTGGAGACCAGCACACTGTCCAGCG
TCCCACCCCCAGACATCACCTACACCCTGGCCCTGCCCTCGGACAGCGGGGCCCTGTCTGCCCTGCAGCTAGAGG
CCATCACCTACGCCTGCCAGCAACACGAGGTCCTGCTCCCCAGCGGGCAGCGCGCGGGCTTTCTCATCGGCGATG
GGGCCGGCGTGGGCAAAGGCCGGACGGTGGCCGGAGTCATCCTGGAGAACCACCTGCGCGGCCGGAAGAAAGCAT
TGTGGTTCAGCGTCTCCAACGACCTCAAGTACGATGCGGAGCGCGACCTGCGGGACATCGAAGCCACGGGCATCG
CGGTGCACGCGCTCAGCAAGATCAAGTACGGTGACACCACTACCTCAGAGGGCGTCCTCTTCGCCACCTACTCCG
CCCTGATTGGGGAGAGCCAGGCCGGCGGCCAGCACCGCACTCGCCTCCGGCAGATCCTGGACTGGTGTGGGGAGG
CCTTCGAGGGCGTCATCGTGTTCGACGAGTGTCACAAAGCCAAGAATGCCGGCTCCACCAAGATGGGCAAGGCTG
TGCTAGACCTGCAGAACAAGCTGCCCCTGGCCCGCGTGGTCTACGCCAGCGCCACAGGTGCCTCTGAGCCTCGGA
ACATGATCTACATGAGCCGCTTGGGTATCTGGGGCGAGGGCACACCCTTCCGGAACTTTGAGGAGTTCCTGCACG
CCATCGAGAAGAGGGGCGTTGGCGCCATGGAGATCGTGGCCATGGACATGAAGGTCAGCGGCATGTACATCGCAC
GCCAGCTCAGCTTCTCCGGCGTCACCTTCCGCATCGAGGAGATCCCGCTGGCCCCAGCCTTCGAGTGCGTCTACA
ACCGCGCGGCCCTGCTGTGGGCCGAGGCCCTGAACGTGTTCCAGCAGGCGGCCGACTGGATCGGCCTGGAGTCGC
GCAAGTCCCTGTGGGGCCAGTTCTGGTCGGCACACCAGCGCTTCTTCAAGTATCTGTGCATCGCAGCCAAGGTGC
GCCGGCTGGTGGAGCTGGCCCGAGAGGAGCTGGCGCGAGACAAGTGCGTGGTCATCGGGCTGCAGTCCACGGGCG
AGGCGCGCACGCGGGAGGTGCTGGGGGAGAACGATGGGCACCTCAACTGCTTCGTCTCGGCCGCTGAAGGCGTGT
TCCTGTCGCTAATTCAGAAGCACTTTCCGTCCACCAAGAGAAAGCGGGACAGAGGAGCGGGCAGCAAGCGGAAAC
GGCGACCTCGGGGACGCGGGGCCAAAGCCCCCCGGCTGGCGTGCGAGACAGCGGGCGTCATCCGCATCAGTGACG
ACAGCAGCACGGAGTCGGACCCTGGCCTGGACAGCGACTTCAACTCCTCCCCCGAGTCCCTGGTGGATGACGACG
TTGTCATCGTTGATGCAGTCGGGCTCCCCAGTGACGACCGGGGACCCCTGTGCCTCCTGCAGAGAGACCCGCATG
GCCCCGGGGTCCTGGAGCGGGTGGAGCGGCTGAAGCAGGATCTGCTGGACAAAGTGCGGCGGCTGGGCCGGGAAC
TGCCAGTCAACACCCTGGACGAGCTCATCGACCAGCTGGGCGGCCCCCAGCGGGTGGCGGAGATGACCGGCAGGA
AAGGCCGCGTGGTGTCCAGGCCCGACGGGACGGTGGCCTTCGAGTCGCGGGCAGAGCAGGGTCTGTCCATCGACC
ACGTGAACCTCAGGGAGAAGCAGCGCTTCATGAGCGGCGAGAAGCTCGTGGCCATCATCTCGGAGGCCTCCAGCT
CGGGTGTCTCCCTCCAAGCCGACCGCCGTGTCCAGAACCAGCGGCGCCGCGTGCACATGACCTTGGAGCTGCCGT
GGAGCGCCGACCGCGCCATCCAGCAGTTCGGCCGCACCCACCGGTCCAACCAGGTCTCCGCGCCAGAGTATGTCT
TCCTCATCTCGGAGCTGGCCGGGGAGCGCCGGTTCGCCTCCATCGTGGCCAAGCGCCTGGAGAGTCTGGGGGCCC
TGACCCACGGAGACCGCCGCGCCACGGAGTCCCGTGACCTCAGCAAGTACAACTTTGAGAACAAGTATGGCACCC
GGGCCCTGCACTGTGTCCTCACCACCATCCTGAGCCAGACTGAGAACAAAGTGCCTGTGCCCCAGGGATACCCTG
GAGGGGTCCCCACCTTCTTCCGGGACATGAAGCAGGGCCTGCTGTCTGTGGGCATTGGTGGCCGGGAGTCCCGGA
ATGGCTGCCTGGACGTGGAGAAGGACTGTTCCATCACCAAGTTCCTGAACCGCATCCTGGGGCTGGAGGTGCACA
AGCAGAACGCCCTGTTCCAGTACTTCTCAGACACCTTCGACCACCTCATCGAGATGGACAAGCGGGAGGGCAAAT
ACGACATGGGCATCCTGGACCTTGCTCCCGGTATCGAGGAGATCTACGAGGAGAGCCAGCAGGTGTTCCTGGCTC
CCGGGCACCCGCAGGACGGGCAGGTGGTCTTCTACAAGATCAGCGTGGACCGCGGCCTGAAGTGGGAGGACGCCT
TTGCCAAGTCGCTGGCGCTGACGGGCCCCTATGACGGCTTCTACCTCTCCTACAAGGTCCGCGGTAACAAGCCCA
GCTGCCTGCTGGCGGAGCAGAACCGCGGCCAGTTCTTCACGGTGTACAAGCCCAACATCGGCCGGCAGAGCCAGC
TGGAGGCCCTGGACAGCCTCCGCCGCAAGTTCCACCGGGTCACCGCGGAGGAGGCCAAGGAGCCCTGGGAGAGTG
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5548/6881
FIGURE 5113B

GCTACGCTTTGTCGCTGACGCACTGCAGCCACAGCGCCTGGAACCGGCACTGCCGGCTGGCGCAGGAGGGTAAGG
ACTGCCTGCAGGGGCTGCGGCTGCGGCACCACTACATGCTGTGCGGCGCGCTGCTGCGCGTGTGGGGCCGCATCG
CCGCCGTCATGGCCGACGTCAGCAGCAGCAGCTACCTGCAGATCGTGCGGCTGAAGACCAAGGACAGGAAGAAGC
AAGTGGGCATCAAGATCCCCGAGGGCTGCGTGCGCCGGGTGCTGCAGGAGCTGCGGCTGATGGATGCGGACGTGA
AGCGCAGGCAGGCGCCCGCCCTGGGCTGCCCCGCCCCGCCCGCCCCGCGCCCCGCTGGCGCTGCCTTGCGGCCCCG
GAGAGGTGCTGGACCTCACCTACAGCCCCCCGGCCGAGGCCTTCCCGCCGCCCCCGCACTTCTCTTTCCCGGCGC
CGCTGTCCCTGGACGCCGGCCCCGGCGTCGTGCCGCTGGGCACCCCCGACGCCCAGGCCGACCCTGCGGCCCTCG
CGCACCAGGGCTGCGACATCAACTTCAAGGAGGTGCTGGAGGACATGCTGCGCTCGCTGCACGCGGGGCCGCCCT
CCGAGGGCGCGCTGGGGGAGGGCGCGGGGGCGGGGGGCGCGGCGGGCGGTGGTCCCGAGCGGCAGAGCGTGATCC
AGTTCAGCCCACCCTTCCCCGGCGCCCAGGCTCCTCTCTGACACGCCTTTAGGCGAAACATGCCCCAAGACACAG
GGACCGTTTCTCCCCTAGGAGCAGCGGTGGGGAGCAGGGCCAAGGTCCCCTGACCACTGCTCAGAGGAGCCCTAG
GCCCTGGCCGCAGTGCCTTCAGCGCCCGACCCGGGCCCCCACCTGGTCAGCCCTGGCGGGGCCCACTCAGGACAG
CTGGGGGCCGGGGCGTGGCAGGGCCCTCTCTGTGCCTCTCCTCCCAAGTAGGAAGGGGCTCCGGGTGGCTGCTCT
GGGACTGGGCACCCACAAGGGCTCAGTGGGCCCAAACCCTTGAAATCCGTGAAACCGGGTGGTCCCAAGAGCTAG
AAACTCAGGAAACCCCAGGTGCTCAGGGCCCCGCGTCTCGGGGGCTCCGTGGGGCAGACCCCTGCTAATATATGC
AATTCTCCCTCCCCCAGCCCTTCCCTGACCCCTAAGTTATTGCCCGCTCACCTCTCCCAGGCCCCAGGCCGCGGA
GCTGGCAGGGTGGCGCCTGCGGTTTCTATGTATTTATAGCAAGTTCTGATGTACATATGTAAAGGACTTTTTTAA
AT

5549/6881
FIGURE 5114

CCCAGGGTCCCCGAGGACGAAGTTGACCCTGACCGGGCCGTCTCCCAGTTCTGAGGCCCGGGTCCCACTGGAACT
CGCGTCTGAGCCGCCGTCCCGGACCCCCGGTGCCCGCCGGTCCGCAGACCCTGCACCGGGCTTGGACTCGCAGCC
GGGACTGACGTGTAGAACAATCGTTTCTGTTGGAAGAAGGGTTTTTCCCTTCCTTTTGGGGTTTTTGTTGCCTTT
TTTTTTTCTTTTTTCTTTGTAAAATTTTGGAGAAGGGAAGTCGGAACACAAGGAAGGACCGCTCACCCGCGGACT
CAGGGCTGGCGGCGGGACTCCAGGACCCTGGGTCCAGCATGGAGGTGGTGGACCCGCAGCAGCTGGGCATGTTCA
CGGAGGGCGAGCTGATGTCGGTGGGTATGGACACGTTCATCCACCGCATCGACTCCACCGAGGTCATCTACCAGC
CGCGCCGCAAGCGGGCCAAGCTCATCGGCAAGTACCTGATGGGGGACCTGCTGGGGGAAGGCTCTTACGGCAAGG
TGAAGGAGGTGCTGGACTCGGAGACGCTGTGCAGGAGGGCCGTCAAGATCCTCAAGAAGAAGAAGTTGCGAAGGA
TCCCCAACGGGGAGGCCAACGTGAAGAAGGAAATTCAACTACTGAGGAGGTTACGGCACAAAAATGTCATCCAGC
TGGTGGATGTGTTATACAACGAAGAGAAGCAGAAAATATATATGGTGATGGAGTACTGCGTGTGTGGCATGCAGG
AAATGCTGGACAGCGTGCCGGAGAAGCGTTTCCCAGTGTGCCAGGCCCACGGGTACTTCTGTCAGCTGATTGACG
GCCTGGAGTACCTGCATAGCCAGGGCATTGTGCACAAGGACATCAAGCCGGGGAACCTGCTGCTCACCACCGGTG
GCACCCTCAAAATCTCCGACCTGGGCGTGGCCGAGGCACTGCACCCGTTCGCGGCGGACGACACCTGCCGGACCA
GCCAGGGCTCCCCGGCTTTCCAGCCGCCCGAGATTGCCAACGGCCTGGACACCTTCTCCGGCTTCAAGGTGGACA
TCTGGTCGGCTGGGGTCACCCTCTACAACATCACCACGGGTCTGTACCCCTTCGAAGGGGACAACATCTACAAGT
TGTTTGAGAACATCGGGAAGGGGAGCTACGCCATCCCGGGCGACTGTGGCCCCCGCTCTCTGACCTGCTGAAAG
GGATGCTTGAGTACGAACCGGCCAAGAGGTTCTCCATCCGGCAGATCCGGCAGCACAGCTGGTTCCGGAAGAAAC
ATCCTCCGGCTGAAGCACCAGTGCCCATCCCACCGAGCCCAGACACCAAGGACCGGTGGCGCAGCATGACTGTGG
TGCCGTACTTGGAGGACCTGCACGGCGCGGACGAGGACGAGGACCTCTTCGACATCGAGGATGACATCATCTACA
CTCAGGACTTCACGGTGCCCGGACAGGTCCCAGAAGAGGAGGCCAGTCACAATGGACAGCGCCGGGGCCTCCCCA
AGGCCGTGTGTATGAACGGCACAGAGGCGGCGCAGCTGAGCACCAAATCAGGGCGGAGGGCCGGGCCCCCAACC
CTGCCCGCAAGGCCTGCTCCGCCAGCAGCAAGATCCGCCGGCTGTCGGCCTGCAAGCAGCAGTGAGGCTGGCCGC
CTGCAGCCCGTGTCCAGGAGCCCCGCCAGGTGCCCGCGCCAGGCCCTCAGTCTTCCTGCCGGTTCCGCCCGCCCT
CCCGGAGAGGTGGCCGCCATGCTTCTGTGCCGACCACGCCCCAGGACCTCCGGAGCGCCCTGCAGGGCCGGGCAG
GGGGACAGCAGGGACCGGGCGCAGCCCTCCCCCCTCGGCCGCCCGGCAGTGCACGCGGCTTGTTGACTTCGCAGC
CCCGGGCGGAGCCTTCCCGGGCGGGCGTGGGAGGAGGGAGGCGGCCTCCATGCACTTTATGTGGAGACTACTGGC
CCCGCCCGTGGCCTCGTGCTCCGCAGGGCGCCCAGCGCCGTCCGGCGGCCCCGCCGCAGACCAGCTGGCGGGTGT
GGAGACCAGGCTCCTGACCCCGCCATGCATGCAGCGCCACCTGGAAGCCGCGCGGCCGCTTTGGTTTTTTGTTTG
GTTGGTTCCATTTTCTTTTTTTCTTTTTTTTTTTAAGAAAAAATAAAAGGTGGATTTG

5550/6881
FIGURE 5115

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GTCCTCCTCGCCCTCCAGGCCGCCCGCGCCGCGCCGGAGTCCGCTGTCCGCCAGCTACCCGCTTCCTGCCGCCCG
CCGCTGCCATGCTGCCCGCCGCGCTGCTCCGCCGCCCGGGACTTGGCCGCCTCGTCCGCCACGCCCGTGCCTATG
CCGAGGCCGCCGCCGCCCCGGCTGCCGCCTCTGGCCCCAACCAGATGTCCTTCACCTTCGCCTCTCCCACGCAGG
TGTTCTTCAACGGTGCCAACGTCCGGCAGGTGGACGTGCCCACGCTGACCGGAGCCTTCGGCATCCTGGCGGCCC
ACGTGCCCACGCTGCAGGTCCTGCGGCCGGGGCTGGTCGTGGTGCATGCAGAGGACGGCACCACCTCCAAATACT
TTGTGAGCAGCGGTTCCATCGCAGTGAACGCCGACTCTTCGGTGCAGTTGTTGGCCGAAGAGGCCGTGACGCTGG
ACATGTTGGACCTGGGGGCAGCCAAGGCAAACTTGGAGAAGGCCCAGGCGGAGCTGGTGGGGACAGCTGACGAGG
CCACGCGGGCAGAGATCCAGATCCGAATCGAGGCCAACGAGGCCCTGGTGAAGGCCCTGGAGTAGGCGGTGCGTA
CCCGGTGTCCCGAGGCCCGGCCAGGGGCTGGGCAGGGATGCCAGGTGGGCCCAGCCAGCTCCTGGGGTCCCGGCC
ACCTGGGGAAGCCGCGCCTGCCAAGGAGGCCACCAGAGGGCAGTGCAGGCTTCTGCCTGGGCCCCAGGCCCTGCC
TGTGTTGAAAGCTCTGGGGACTGGGCCAGGGAAGCTCCTCCTCAGCTTTGAGCTGTGGCTGCCACCCATGGGGCT
CTCCTTCCGCCTCTCAAGATCCCCCCAGCCTGACGGGCCGCTTACCATCCCCTCTGCCCTGCAGAGCCAGCCGCC
AAGGTTGACCTCAGCTTCGGAGCCACCTCTGGATGAACTGCCCCCAGCCCCCGCCCCATTAAAGACCCGGAAGCC
TGAAAAAAAAAAAAAAAAAA
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5551/6881
FIGURE 5116

MLPAALLRRPGLGRLVRHARAYAEAAAAPAAASGPNQMSFTFASPTQVFFNGANVRQVDVPTLTGAFGILAAHVP
TLQVLRPGLVVVHAEDGTTSKYFVSSGSIAVNADSSVQLLAEEAVTLDMLDLGAAKANLEKAQAELVGTADEATR
AEIQIRIEANEALVKALE

5552/6881
FIGURE 5117

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CAGCAGCGGGCGGCCGCGGCGTGACATCGGCACCATCCTGCAGATCCTGAACGACCTCCTGAGCGCCACCCGGCA
CTACCAGGGCATGCCCCCTTCGCTGGCCCAGCTCCGCTGCCACGCCCAGTGCTCCCCGGCCTCACCGGCCCCCGA
CCTGGCCCCCAGAACTACCTCCTGCGAGAAGCTCACGGCTGCCCCCTCAGCCTCCCTGCTGCAGGGCCAGAGCCA
GATCCGCATGTGCAAGCCCCCGGGGGACCGGCTTCGGCAGACAGAAAACCGCGCCACGCGCTGCAAGGTGGAACG
GCTGCAGCTGCTTCTGCAGCAGAAACGGCTCCGTAGAAAGGCCCGGCGGGACGCGCGGGGTCCGTACCACTGGTC
ACCCAGCCGCAAGGCCGGCCGCAGCGACAGCAGTAGCAGCGGGGGCGGCGGCAGCCCCAGCGAGGCCTCCGGCTT
GGGCCTCGACTTCGAGGACTCCGTGTGGAAGCCAGAAGTCAACCCTGACATCAAGTCAGAGTTCGTGGTGGCTTA
GGATCTTCGGATCGGCCACCCTCGCCCCTCGCACCCCAGCCCAGGGCGGCGGGGACTCCGAGAGCCCCGGAGAGA
ACGTGGCCCAGCCCTGGAGGGCAGGCGGCCACTCCCCAGCCAGAAGTCTTTTTTTCTTTTCTTCTTTTTTATTA
TTTTTTTCTTTTTTTAAAAAGTTCTGACCGTGGTTTCCTGGACTCTTCATGGGCTTTGCTTCCTACCTCCTTCAC
CCTTCACTCCTGCCCTCCTCTTCCTCCTCCTCCTCCTCCGTCTGTCTCCTTTCACCTCTGCGCCAGGTCGGT
CCTCCCTGCCAACCTTCCCCAGCTCCAATATGTAGCAGTCTCTCTGGATGGCGGAGAGTGAAGGAGACGGAGAAA
CGCGCCCCATCCCTTCCGCCGCCTCCTTTCCCCCCCGACCCTATTCAGGTTTTAAGTCAAAAATGTCGATATGTC
ATTATGCACTTTACAGATGAGGGGAGGGGCCGCAGTGCGCAGAACCCACCCCACCCCCCAGTGCAGACTTCGGGG
TCTCCACCCCAGGCCAGCAGCGCCCACTGGGCTACAGCAAGCCAACAGGTCACAGAAGCCAACGAGGGGACTGTT
TCTCTTCCACTCCTATCCTCTTTTCTTGATCTTTTTTTTGCATTTTCCTTCATTTCTTTAACAAGGAGAGCAAAG
CTGTTTTAGCAGAGGCTGGGGCTGAGGTCCCCATGGGGTTTGGGTGCAGGGGCATGGCACCCTTTCCTGTCGGGA
AGGGAGAGGGGAACTACCCCCCCAGCCTGCCCTCCGCCCCGCCCCAGCCGGCGGACTGTGCTGTTTCCTCCGCCC
CCACTCCCGTGTTTTCTGACCTCCTGCCTGAGTTTGGGGTATTTATAGACTATTAATTTTCTGACTGAGCCAATA
GTGGTTGGGGAACTCTTGAAAAAGGGGAGAGAATGGCTGGGTGCTGGGGAGTTCCCCCCTCCGAGCCCTCCTTCC
CGGCCCAACCTGAGGGATGTGGATTTGGGACTGTCTGGGGGCCCCTCCTGCAGCGAGGATGGGAGGGGGTGCTGA
GCTGTGAATCCCCTGGGCAGGGGGCGACAACTCCGTGTAGCATTAACCCCCGTGGCGGGGTCCGCTGCTGGTCTA
ATTTGGACCCCCTGCCTCTCAGTGCCCCTGCCCTAGGGGTGTCTGTCTCCAGAGGGGAGGGACAAATCCCCTACT
GGGGCCATTTCAATGGGGTAGTTTTTGGATTTTTTTCCCCACTCACTTTTTATTTTTAATGATAATGGAGATGT
CTGGACCCTTCCTCACCCCACCTGTCGGTCTTGTCCTGGCTCTGCCTGTCCCCCACCGTTGTTCTCGTAGGTGAA
CCCCAGGTCCTCAACTCCCCCCCTTTATGTGTTGAAAGTTAATGGTTTCAGATGTGAACATCACGTGTTATAACT
GTAGCGCTGTAAATTTTTTTGTGGGAGGGTGGGCAGGGAGGGGTCCCAGAGGGTAGAGCTCAAGGATTTTGGGTT
TTGTTTTGTTTTCATTTTTCCAAAAAAAAAAAGAAAAAAAAATAGAAAAAAAAGGAGTAAAAGGGGCGGGTTTGTT
TTTTGAAGAACTGTCTTGGATACCTATTTAAATGTGTGTTCTGTTTTGTTTTTTAACGATTTTTAAATAACGTCT
GTGCCTCCACTGGTTGAGGGTGGAACCTCCAGGCAGGAACCGGCTCGCCACCCTCTGCCCGGTAAGGGCTGCCCA
AGAAAGCATTACCCGCCCTCGGGGGGTCGGGCTGTGGGGGTCCCGGCACCTGGCGTGAGTTTCATGTATGAAAAC
ATAAAATTGAAAAAAAAAAAAAAAACCTACACGAGCACCGTGATTTCAAGTAATAAACAGAAAATGAAACAC
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5553/6881
FIGURE 5118

MSLAIHSTTGTRYDLAVPPDETVEGLRKRLSQRLKVPKERLALLHKDTRLSSGKLQEFGVGDGSKLTLVPTVEAG

LMSQASRPEQSVMQALESLTETQPPAAPGPGRAGGGGFRKYRFILFKRPWHRQGPQSPERGGERPQVSDFLSGRS

PLTLALRVGDHMMFVQLQLAAQHAPLQHRHVLAAAAAAAAAARGDPSIASPVSSPCRPVSSAARVPPVPTSPSPAS

PSPITAGSFRSHAASTTCPEQMDCSPTASSSASPGASTTSTPGASPAPRSRKPGAVIESFVNHAPGVFSGTFSGT

LHPNCQDSSGRPRRDIGTILQILNDLLSATRHYQGMPPSLAQLRCHAQCSPASPAPDLAPRTTSCEKLTAAPSAS

LLQGQSQIRMCKPPGDRLRQTENRATRCKVERLQLLLQQKRLRRKARRDARGPYHWSPSRKAGRSDSSSSGGGGS

PSEASGLGLDFEDSVWKPEVNPDIKSEFVVA

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FIGURE 5119

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GAGGCTCGGGTCGTTGTGGTGCGCTGTCTTCCCGCTTGCGTCAGGGACCTGCCCGACTCAGTGGCCGCCATGGCA
TCAGATGAAGGCAAACTTTTTGTTGGAGGGCTGAGTTTTGACACCAATGAGCAGTCGCTGGAGCAGGTCTTCTCA
AAGTACGGACAGATCTCTGAAGTGGTGGTTGTGAAAGACAGGGAGACCCAGAGATCTCGGGGATTTGGGTTTGTC
ACCTTTGAGAACATTGACGACGCTAAGGATGCCATGATGGCCATGAATGGGAAGTCTGTAGATGGACGGCAGATC
CGAGTAGACCAGGCAGGCAAGTCGTCAGACAACCGATCCCGTGGGTACCGTGGTGGCTCTGCCGGGGGCCGGGGC
TTCTTCCGTGGGGGCCGAGGACGGGGCCGTGGGTTCTCTAGAGGAGGAGGGGACCGAGGCTATGGGGGGAACCGG
TTCGAGTCCAGGAGTGGGGGCTACGGAGGCTCCAGAGACTACTATAGCAGCCGGAGTCAGAGTGGTGGCTACAGT
GACCGGAGCTCGGGCGGGTCCTACAGAGACAGTTATGACAGTTACGCTACACACAACGAGTAAAAACCCTTCCTG
CTCAAGATCGTCCTTCCAATGGCTGTGTGTTTAAAGATTGTGGGAGCTTCGCTGAACGTTAATGTGTAGTAAATG
CACCTCCTTGTATTCCCACTTTCGTAGTCATTTCGGTTCTGATCTTGTCAAACCCAGCCTGACCGCTTCTGACGC
CGGGATGGCCTCGTTACTAGACTTTTCTTTTTAAGGAAGTGCTGTTTTTTTTTGAGGGTTTTCAAAACATTTTGA
AAAGCATTTACTTTTTTGACCACGAGCCATGAGTTTTCAAAAAAATCGGGGGGTTGTGTGGGTTTTTGGTTTTTGT
TTTAGTTTTTGGTTGCGTTGCCTTTTTTTTTTAGTGGGGTTGGCCCCATGAAGTGGGTGCCCCACTCACTTCTC
TGAGATCGAACGGACTGTGAATCCGCTCTTTGTCGGAAGCTGAGCAAGCTGTGGCTTTTTTCCAACTCCGTGTGA
CGTTTCTGAGTGTAGTGTGGTAGGACCCCGGCGGGTGTGGCAGCAACTGCCCTGGAGCCCCAGCCCCTGCGTCCA
TCTGTGCTGTGCGCCCCACAGTAGACGTGCAGACGTCCCTGAGAGGTTCTTGAAGATGTTTATTTATATTGTCCT
TTTTTACTGGAAGACGTACGCATACTCCATCGATGTTGTATTTGCAGTGGCTGAGGAATTCTTGTACGCAGTTTT
CTTTGGCTTTACGAAGCCGATTAAAAGACCGTGTGAAATG
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FIGURE 5120

CCAAG**ATG**GCGGTGCTGTCAGCTCCTGGCCTGCGCGGCTTCCGGATCCTTGGTCTGCGCTCCAGCGTGGGCCCGG
CTGTGCAGGCACGAGGTGTCCATCAGAGCGTGGCCACCGATGGCCCAAGCAGCACCCAGCCTGCCCTGCCAAAGG
CCAGAGCCGTGGCTCCCAAACCCAGCAGCCGGGGCGAGTATGTGGTGGCCAAGCTGGATGACCTCGTCAACTGGG
CCCGCCGGAGTTCTCTGTGGCCCATGACCTTCGGCCTGGCCTGCTGCGCCGTGGAGATGATGCACATGGCAGCAC
CCCGCTACGACATGGACCGCTTTGGCGTGGTCTTCCGCGCCAGCCCGCGCCAGTCCGACGTCATGATCGTGGCCG
GCACACTCACCAACAAGATGGCCCCAGCGCTTCGCAAGGTCTACGACCAGATGCCGGAGCCGCGCTACGTGGTCT
CCATGGGGGAGCTGCGCCAACGGAGGAGGCTACTACCACTATTCCTACTCGGTGGTGAGGGGCTGCGACCGCATCG
TGCCCGTGGACATCTACATCCCAGGCTGCCCACCTACGGCCGAGGCCCTGCTCTACGGCATCCTGCAGCTGCAGA
GGAAGATCAAGCGGGAGCGGAGGCTGCAGATCTGGTACCGCAGG**TAG**CGCCGCCGCCGCCGCCGGAGCCTGT
CGCCGTCCTGTCCCCAGCCTGCTTGTGTCCCGTGAGGTTGTCAATAAACCTGCCCTCGGGCTGCCGCCAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5121

MAVLSAPGLRGFRILGLRSSVGPAVQARGVHQSVATDGPSSTQPALPKARAVAPKPSSRGEYVVAKLDDLVNWAR
RSSLWPMTFGLACCAVEMMHMAÀPRYDMDRFGVVFRASPRQSDVMIVAGTLTNKMAPALRKVYDQMPEPRYVVSM
GSCANGGGYYHYSYSVVRGCDRIVPVDIYIPGCPPTAEALLYGILQLQRKIKRERRLQIWYRR

FIGURE 5122

CCCCGGCCCACAAGCCCCTGCAGGGAGCGGGCCCGGGCGGCGCGCGATCGAGGTCGGGTCGCCGTCCAGCCTGCA
GC**ATG**AGCGCCCCCAGCGCGACCCCCATCTTCGCGCCCGGCGAGAACTGCAGCCCCGCGTGGGGGGCGGCGCCCG
CGGCCTACGACGCAGCGGACACGCACCTGCGCATCCTGGGCAAGCCGGTGATGGAGCGCTGGGAGACCCCCTATA
TGCACGCGCTGGCCGCCGCCGCCTCCTCCAAAGGGGGCCGGGTCCTGGAGGTGGGCTTTGGCATGGCCATCGCAG
CGTCAAAGGTGCAGGAGGCGCCCATTGATGAGCATTGGATCATCGAGTGCAATGACGGCGTCTTCCAGCGGCTCC
GGGACTGGGCCCCACGGCAGACACACAAGGTCATCCCCTTGAAAGGCCTGTGGGAGGATGTGGCACCCACCCTGC
CTGACGGTCACTTTGATGGGATCCTGTACGACACGTACCCACTCTCGGAGGAGACCTGGCACACACCAGTTCA
ACTTCATCAAGAACCACGCCTTTCGCCTGCTGAAGCCGGGGGGCGTCCTCACCTACTGCAACCTCACCTCCTGGG
GGGAGCTGATGAAGTCCAAGTACTCAGACATCACCATCATGTTTGAGGAGACGCAGGTGCCCGCGCTGCTGGAGG
CCGGCTTCCGGAGGGAGAACATCCGTACGGAGGTGATGGCGCTGGTCCCACCGGCCGACTGCCGCTACTACGCCT
TCCCACAGATGATCACGCCCCTGGTGACCAAAGGC**TGA**GCCCCCACCCCGGCCCGGCCACACCCATGCCCTCCTC
CGTGCCTTCCTGGCCGGGAGTCCAGGGTGTCGCACCAGCCCTGGGCTGATCCCAGCTGTGTGTCACCAGAAGCTT
TCCCGGCTTCTCTGTGAGGGGTCCCACCAGCCCAGGGCTGATCCCAGCTGTGTGTCACCAGCAGCTTTCCCAGCT
TCTCTGTGAGGGTCACTGCTGCCCACTGCAGGGTCCCTGAGGTGAAGTAAACGCCGGCGCTGGGCTTGGCCAGTC
GGCAGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5123

MSAPSATPIFAPGENCSPAWGAAPAAYDAADTHLRILGKPVMERWETPYMHALAAAASSKGGRVLEVGFGMAIAA
SKVQEAPIDEHWIIECNDGVFQRLRDWAPRQTHKVIPLKGLWEDVAPTLPDGHFDGILYDTYPLSEETWHTHQFN
FIKNHAFRLLKPGGVLTYCNLTSWGELMKSKYSDITIMFEETQVPALLEAGFRRENIRTEVMALVPPADCRYYAF
PQMITPLVTKG

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FIGURE 5124

CCCCGGCCCACAAGCCCCTGCAGGGAGCGGGCCCGGGCGGCGCGCGATCGAGGTCGGGTCGCCGTCCAGCCTGCA
GC**ATG**AGCGCCCCCAGCGCGACCCCCATCTTCGCGCCCGGCGAGAACTGCAGCCCCGCGTGGGGGGCGGCGCCCG
CGGCCTACGACGCAGCGGACACGCACCTGCGCATCCTGGGCAAGCCGGTGATGGAGCGCTGGGAGACCCCCTATA
TGCACGCGCTGGCCGCCGCCGCCTCCTCCAAAGGGGGCCGGGTCCTGGAGGTGGGCTTTGGCATGGCCATCGCAG
CGTCAAAGGTGCAGGAGGCGCCCATTGATGAGCATTGGATCATCGAGTGCAATGACGGCGTCTTCCAGCGGCTCC
GGGACTGGGCCCCACGGCAGACACACAAGGTCATCCCCTTGAAAGGCCTGTGGGAGGATGTGGCACCCACCCTGC
CTGACGGTCACTTTGATGGGATCCTGTACGACACGTACCCACTCTCGGAGGAGACCTGGCACACACCAGTTCA
ACTTCATCAAGAACCACGCCTTTCGCCTGCTGAAGCCGGGGGGCGTCCTCACCTACTGCAACCTCACCTCCTGGG
GGGAGCTGATGAAGTCCAAGTACTCAGACATCACCATCATGTTTGAGGTGCGCCCACCTGAAGTTCCCCATGGGT
CTCCAGGAAGTGACCTTGGATGGGGGTGGGAAGGGGCTGCTGGAGCCACCTTGCTACCTGGGGAGGGTCCCTTCC
TGACCCCCTGGGTGGGCTGGACTGTGCTGGTTCATTTAGAAATCAAAGTCCTTTGCCTGGCGCAGTGGCTGCCAG
GAGCAGTGGCTCAGGTCTATAATCCCAGCACTGTGGAAGGCCGAGGTGGGCAGATTGCT**TGA**GCCTAGGAGTTCA
AGACCAGCCTGGGCTACAGAGCAAGACCTCATCTTTCCTAAAAAAAAAAAAATACAAAAAA

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FIGURE 5125

MSAPSATPIFAPGENCSPAWGAAPAAYDAADTHLRILGKPVMERWETPYMHALAAAASSKGGRVLEVGFGMAIAA
SKVQEAPIDEHWIIECNDGVFQRLRDWAPRQTHKVIPLKGLWEDVAPTLPDGHFDGILYDTYPLSEETWHTHQFN
FIKNHAFRLLKPGGVLTYCNLTSWGELMKSKYSDITIMFEVRPPEVPHGSPGSDLGWGWEGAAGATLLPGEGPFL
TPWVGWTVLVHLEIKVLCLAQWLPGAVAQVYNPSTVEGRGGQIA

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FIGURE 5126

CTGCGCAGGCGCGGACCAAAGCGATCTCTTCTGAGGATCCGGCAAG**ATG**GCAGAAGTAGAGCAGAAGAAGAAGCG
GACCTTCCGCAAGTTCACCTACCGCGGCGTGGACCTCGACCAGCTGCTGGACATGTCCTACGAGCAGCTGATGCA
GCTGTACAGTGCGCGCCAGCGGCGGCGGCTGAACCGGGGCCTGCGGCGGAAGCAGCACTCCCTGCTGAAGCGCCT
GCGCAAGGCCAAGAAGGAGGCGCCGCCCATGGAGAAGCCGGAAGTGGTGAAGACGCACCTGCGGGACATGATCAT
CCTACCCGAGATGGTGGGCAGCATGGTGGGCGTCTACAACGGCAAGACCTTCAACCAGGTGGAGATCAAGCCCGA
GATGATCGGCCACTACCTGGGCGAGTTCTCCATCACCTACAAGCCCGTAAAGCATGGCCGGCCCGGCATCGGGGC
CACCCACTCCTCCCGCTTCATCCCTCTCAAG**TAA**TGGCTCAGCTAATAAAGGCGCACATGACTCC

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FIGURE 5127

MAEVEQKKKRTFRKFTYRGVDLDQLLDMSYEQLMQLYSARQRRRLNRGLRRKQHSLLKRLRKAKKEAPPMEKPEV
VKTHLRDMIILPEMVGSMVGVYNGKTFNQVEIKPEMIGHYLGEFSITYKPVKHGRPGIGATHSSRFIPLK

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FIGURE 5128

AGCATGCAGTTCGGTCACCTGAGGGTGCTGGGGCCGTGGTTTGAGCTTCATGGGCTCAGGTCCATGGCCGTTGAG
TGTGGCGAAACTGAGGCACGCTGTGCGGGGGACGGGGGGCGCTCACAGAAGGTAGGGGGCCTCCTGTGCCTTCAT
CCAGGCACTGCCCGGCCTTTCCCACCCTGTTGCTAAAGCAGGTGATGACAGAGGTGATTTGATCAGCCCAGACCC
GTGCGGCACGTGGAGCCTTCGTCCGTGGGAGACCACACTGCCGAGGGGCAGGCCAGAGCCGAGGGGCCCCTGACG
CTTCTCTGAGTGACCCTGAAGTCGGTGCTGCTTCAGCCCTGCTGCACTGGGCTTGCATACGTGGGGGAGCAGGGA
GCCATACGTAGTTTCTGC**TGA**ATGTGGGAGTCACCAGGACGTCAATGCCCACCTCTCACCTTCGCCACCCCTGCC
TCCCTAAGTGTGTGCTCCAGGAGGTTGCACGGCCCCTGGAGAGGTTTTCGGTGGCGGGCTTGTTGCGTCTCTGGC
TTCCAGAGACAGCAGGAATGAGAGCCAGGCCAGCTCAGTGGAGTCCATCCCGGTGGGTGCCACGGCTTTTGCAGG
AATGGAAGCCCCGCCCCCAGGAGGGCCACTGCTGGCGAGGCTTGAGCTCTTTCTGTGACCCGATCCCCCTGGTCA
CACGCTTTGCTAAGGCGGGTAGCCTAGAGCTGGAAGCCCCTCCTGCCACCCAGCCACTGTGCCTCTCCCAGCTGA
TGGACGAGGAAGCCTCCATTACTTGATTTTTGTTTTTATTTATTTTTGAGACAGGGTCTCATTCTGTCACCCAGG
CTGGAGTACCGTGGCACGATCATAGCTTATTGCAGCCTCGGCCTCCCAGTCTCAAGCGATCCTCCTGCCTCTGCC
TCCAGAGAAGTAGGGACCACAGATGCGTGCTACCACGCCCAGCTAATTTTTGTATTTGTATTTTTTGGTAGAGAT
GGGGGTGTCACTATGTTGTCCAGGCTGGTCTCTAACTCTTGGGCTCAAGTGTTCCTCCCGCCTCGGCCTCCCAAA
GTGCTGGATTACAGGCGTGAGCCACCACACCTGGCTGCATCCGTCATGTTAAGAAGACCCCGGCTGGCAAGCTCA
CTCGGGGACTGCAGGGAACCCTGCCCTTTGGGGGCAGTAGTGAGGGGTGCCCAGGAGGATGGGGTGGTCAGCAGG
CAGTGATGCTGCTGTGTCCTGTCTCAGACCCCCCAGTTCCCTTCAGGATGATGGAGGATGCGGAGGCCCCGGGAG
AGCAGCTCTACCAGCAAAGCCGGGCCTACGTGGCTGCCAACCAGCGGCTGCAGCAGGCGGGCAACGTGCTGAGGC
AGAGGTGTGAGCTCCTGCAGCGAGCCGGCGAGGACCTGGAGCGGGAGGTGGCCCAGATGAAGCAGGCAGCATTAC
CGGCAGCCGAGGCTGCCTCCTCAGGCTGACCTCTCGGGGCCTGCAGGCTTGGGCAGCGCACAAGGTGGCCTGCAC
CCAGGCTTTCCCTGGGGGTCCGTCGGCCCCAGACTGGCATTCACGGGGTCCCAGCCCACGTGGGTGTTGACACAG
GCGCCCCTCCTGATGCTGGGGCTGCGGTTCATCCGTCGTCTCATTCATGCCGAGTTGGTGGGACCCACCCAGCTG
GCTCCGTCCTGCGTGACCTGAGGGCCCCACTGGGGTTCTGGAAGAGGATAGGGACATTATTGCTGTACTGTGATT
CTGTCGTCAGCTCACAGTGGCCGTGCTCTGCAGTGGGGCCCCTGGGAGCAGGTGCCACCTCCTTCCTCTCCCGGG
GCAGGCACTCGCCTGTCCACTTCTGAGTCCAGGTGTTGGGATCGAGGTGTTAACTGTGATTCCATCCAGCGAGTG
CCCACCCAATGTCAGAGCAGCCCGAGGGCCAGCCTGAGCCCCTGACCCCACTTCCTTCTGGGCCCCGGGCTCCTC
CCACAAGCCACGTTGATCTTCACAACGACCCTGGGCCGCTGGGGTCACCCAAGAGAAGCAGCCCTGAGACCCAGC
CAGGCTGGGCCTAGCTCCACGGCACGGGTGTCTCCCAGCCACTGCCCTTGCTGGAGGACCGCTGTGAGTCACTGG
CCAGGAGCCCAGGGTGTCCTGAGTCTCATAGCCACCCTGCCAGCTGCAGCAGGTCCTGGGCCTGCTTCCCTGCGG
GTTCTGGCCCTGGGGGAGGGGGCGTTAGTGCGGCGGAGGGTCTTGCCAAAGGCTTTTCATCCTAAATAGCAACTT
GAGTGGAAACCTGGGCAAGGCGGCCCAGAGGCTGGGCCCTGCACATAAAGCTTTCGTGTGTGTC

FIGURE 5129

MGSKAKKRVLLPTRPAPPTVEQILEDVRGAPAEDPVFTILAPEDPPVPFRMMEDAEAPGEQLYQQSRAYVAANQR
LQQAGNVLRQRCELLQRAGEDLEREVAQMKQAALPAAEAASSG

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FIGURE 5130

CGCGGGGAAACTGAGGCAGAGAGATGGGCTCCAAGGCAAAGAAGCGCGTGCTGCTGCCCACCCGCCCAGCGCCCC
CCACGGTGGAGCAGATCCTGGAGGATGTGCGGGGTGCGCCGGCAGAGGATCCAGTGTTCACCATCCTGGCCCCGG
AAGGTAGGGGGAGCCCGGTCCCGGGGAAAAGCGGACCTGAGACCCCGGCAGCAAGGGGACGGGAGAGAAGCACAC
CCCTAACTCCTGACCCCACGCCCTGGGAACCCCCGCAACATGGGCACGGTCCGTATCCTCTCCGAGTCTCCCTCT
ACTCCTCCGTAGAGTGGGACCGATTTTCAGAGGGTTCTTCTGACAGGGGTGGAGGCCGGGCGCTGTGGTTCAGGC
CTGTAAGCCCAGCACTTTCGGAGGATGAGGCGGGAGGATCGCTTGAGCCCAGGAGTTCGAGACCAGCCTGGCCAA
CATGGTGAAACCCCGTCTCTGCTAAAAATGAAAAAACAAAAC

FIGURE 5131

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GCGGGCCGAGGAGCCGGGCGCAATGGAGCGGAAGAGGTGGGAGTGCCCGGCGCTCCCGCAGGGCTGGGAGAGGGA
AGAAGTGCCCAGAAGGTCGGGGCTGTCGGCCGGCCACAGGGATGTCTTTTACTATAGCCCGAGCGGGAAGAAGTT
CCGCAGCAAGCCGCAGCTGGCGCGCTACCTGGGCGGCTCCATGGACCTGAGCACCTTCGACTTCCGCACGGGCAA
GATGCTGATGAGCAAGATGAACAAGAGCCGCCAGCGCGTGCGCTACGACTCCTCCAACCAGGTCAAGGGCAAGCC
CGACCTGAACACGGCGCTGCCCGTGCGCCAGACGGCGTCCATCTTCAAGCAGCCGGTGACCAAGATTACCAACCA
CCCCAGCAACAAGGTCAAGAGCGACCCGCAGAAGGCGGTGGACCAGCCGCGCCAGCTCTTCTGGGAGAAGAAGCT
GAGCGGCCTGAACGCCTTCGACATTGCTGAGGAGCTGGTCAAGACCATGGACCTCCCCAAGGGCCTGCAGGGGGT
GGGACCTGGCTGCACGGATGAGACGCTGCTGTCGGCCATCGCCAGCGCCCTGCACACTAGCACCATGCCCATCAC
GGGACAGCTCTCGGCCGCCGTGGAGAAGAACCCCGGCGTATGGCTCAACACCACGCAGCCCCTGTGCAAAGCCTT
CATGGTGACCGACGAGGACATCAGGAAGCAGGAAGAGCTGGTGCAGCAGGTGCGGAAGCGGCTGGAGGAGGCGCT
GATGGCCGACATGCTGGCGCACGTGGAGGAGCTGGCCCGTGACGGGGAGGCGCCGCTGGACAAGGCCTGCGCTGA
GGACGACGACGAGGAAGACGAGGAGGAGGAGGAGGAGCCCGACCCGGACCCGGAGATGGAGCACGTCTAGGG
CAGGTGCTGCGGGGCCACGGGGGCTCCCTGGAGTCGGGTCCTGGCAGTGGGGACTGCCTGGTGAACACAGATGTG
CTTGGGATGACGGGTGCCTCCCAAGAGCTTCCCATCTCCCTAGAAGAGCCCAAGCGTCCCCGTCCCGTGGAGTCG
CTAAAGCCAGCCCTCCCTGTCCTTTCCAGAGGCCCTGCCGAGAGCCCGTGCTGCCTGCTGGAGCCGCCTGCAGAC
GCGGTCCTCGGCCCCACGTGAACCAGGCTCGGCGGCGAAGCCCAGCCTTGGAGACACCCAGGAGGAAGGCCGTGC
TCCTGGCTCCCTCCTCGGCCCGTCCCCACTTCCCGGGGCCTCGGGGCACACAGCTGGGGCTGCCCCCACCCGAAA
GACCCTCCACGCTCGTCCTCTACAGAGTCCGGCTTCGGGAAGTGCCGGGTGCTCCTGGGCCCTGCCTGGCTCCCT
ACGACCTTTGGGCTCGAGGCCAGCTCCTCCCCATGCCCGCTGTCCCAGCTCCTTGAGACTGGAGAGCAGCCAGCA
GGTGCCCGGCAGCTCGGCGCCACGGCTTGCTGACAGCTGGGAGGGTTTCTCGGTCTGGAGGCGTAGTTTTGAAAC
TCACATCACCCACTGTGCAGCGTGAGGACGGGACTCTGGTCTGCTGTGGGGGGCATGCAGGACGGCGCCACTCTC
TGCCCTGCCATGCGGCTGGTGGTGCCACAGAGCCTCACCGTGCCTGAGTGGCATGCCCAGGAGGCCGCTCTCCTT
CAGTAAATGTAACACAGTCGAGGCACGTCATCGGGCAGCCTTCCCTGTGTGCCAACGCCAGCCTTCGCTTCTGAA
AACCAAACTCCAGCCGCTGCCAGTCGGGACTTGGTCGCCCGGCGCTGCCAGAATGCTCCACTGCCAGCCGGCCCC
CCTGCCTCGGTTTCCCTTCTGTTTAGTGGCGACACAGGCACCCAGCTTTGGGGTGGTGCTGACGCTCCCAGGGGT
GCCAGGAGCCACTGGGACAGGGTGAGGCTCCCAGACGCTCCTCGAGGTGCCCAGCTCTCCAGGGAGCTTCTGGCC
CAAGGCCGTCTGAGGGATCTGCTCCTTAACCCCCCAGTGCCTTGGCGAGGGCAGGTTCCAAGCCACAGACGCCTG
CCCCGAGTGGACTCTGCGGCCAGTCCCTGGTGCCCTCCTGGCCCTGCTGCCCAGTGAGGGCTCCTACGGGTGGGT
TCATTGGCCTGGGCCCAGCGAGCCCCCACCTGCATTGACCTTAGGCCCATAGAGAGGGCCTGTCCCGGTGCTGCC
CCAGCCAGGATCTGGTCGCTGCCCCAGGGGGACTGATGGGCAGAGTCGCCCCTGTGGCTGGACTGTGACCATCCC
TGATGGGGCCTGACCGCGGGAGCTGAGGAAGCGCCGCTCCACCGTCTGCCCTCCAAGGACCCGCATGGAGGCAGT
GGGCTGGCAGCTTCCTGCTGCTCCCTGTCAGAGTCAAAGCACAAATCCTCAGGACGGGCTCAAGGGCCAGGGCAG
CCGAGGGAAGCTCCAGGTGGGGACCACGTCTTCCTGAGGTTGGTGCCCACTGGCTGGGACCCTTTGCAGTGGGGT
GGCCTCCCCTCTGTCTGCCTGGTGGAGGGAGCCGTGGGCGTGGGGACGTGACTGAATAAAGCCACCATGGGTGGA
TGTGCTTGG
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FIGURE 5132A

GCCTGAGGTGCCCGCCCTGGCCCCAGGAGA**ATG**AACCAGCCGCAGAGGATGGCGCCTGTGGGCACAGACAAGGAG
CTCAGTGACCTCCTGGACTTCAGCATGATGTTCCCGCTGCCTGTCACCAACGGGAAGGGCCGGCCCGCCTCCCTG
GCCGGGGCGCAGTTCGGAGGTTCAGGTCTTGAGGACCGGCCCAGCTCAGGCTCCTGGGGCAGCGGCGACCAGAGC
AGCTCCTCCTTTGACCCCAGCCGGACCTTCAGCGAGGGCACCCACTTCACTGAGTCGCACAGCAGCCTCTCTTCA
TCCACATTCCTGGGACCGGGACTCGGAGGCAAGAGCGGTGAGCGGGGCGCCTATGCCTCCTTCGGGAGAGACGCA
GGCGTGGGCGGCCTGACTCAGGCTGGCTTCCTGTCAGGCGAGCTGGCCCTCAACAGCCCCGGGCCCCTGTCCCCT
TCGGGCATGAAGGGGACCTCCCAGTACTACCCCTCCTACTCCGGCAGCTCCCGGCGGAGAGCGGCAGACGGCAGC
CTAGACACGCAGCCCAAGAAGGTCCGGAAGGTCCCGCCGGGTCTTCCATCCTCGGTGTACCCACCCAGCTCAGGT
GAGGACTACGGCAGGGATGCCACCGCCTACCCGTCCGCCAAGACCCCCAGCAGCACCTATCCCGCCCCCTTCTAC
GTGGCAGATGGCAGCCTGCACCCCTCAGCCGAGCTCTGGAGTCCCCCGGGCCAGGCGGGCTTCGGGCCCATGCTG
GGTGGGGGCTCATCCCCGCTGCCCCTCCCGCCCGGTAGCGGCCCGGTGGGCAGCAGTGGAAGCAGCAGCACGTTT
GGTGGCCTGCACCAGCACGAGCGTATGGGCTACCAGCTGCATGGAGCAGAGGTGAACGGTGGGCTCCCATCTGCA
TCCTCCTTCTCCTCAGCCCCCGGAGCCACGTACGGCGGCGTCTCCAGCCACACGCCGCCTGTCAGCGGGGCCGAC
AGCCTCCTGGGCTCCCGAGGGACCACAGCTGGCAGCTCCGGGGATGCCCTCGGCAAAGCACTGGCCTCGATCTAC
TCCCCGGATCACTCAAGCAATAACTTCTCGTCCAGCCCTTCTACCCCCGTGGGCTCCCCCCAGGGCCTGGCAGGA
ACGTCACAGTGGCCTCGAGCAGGAGCCCCCGGTGCCTTATCGCCCAGCTACGACGGGGGTCTCCACGGCCTGCAG
AGTAAGATAGAAGACCACCTGGACGAGGCCATCCACGTGCTCCGCAGCCACGCCGTGGGCACAGCCGGCGACATG
CACACGCTGCTGCCTGGCCACGGGGCGCTGGCCTCAGGTTTCACCGGCCCCATGTCACTGGGCGGGCGGCACGCA
GGCCTGGTTGGAGGCAGCCACCCCGAGGACGGCCTCGCAGGCAGCACCAGCCTCATGCACAACCACGCGGCCCTC
CCCAGCCAGCCAGGCACCCTCCCTGACCTGTCTCGGCCTCCCGACTCCTACAGTGGGCTAGGGCGAGCAGGTGCC
ACGGCGGCCGCCAGCGAGATCAAGCGGGAGGAGAAGGAGGACGAGGAGAACACGTCAGCGGCTGACCACTCGGAG
GAGGAGAAGAAGGAGCTGAAGGCCCCCCGGGCCCGGACCAGCCCAGACGAGGACGAGGACGACCTTCTCCCCCCA
GAGCAGAAGGCCGAGCGGGAGAAGGAGCGCCGGGTGGCCAATAACGCCCGGGAGCGGCTGCGGGTCCGTGACATC
AACGAGGCCTTTAAGGAGCTGGGGCGCATGTGCCAACTGCACCTCAACAGCGAGAAGCCCCAGACCAAACTGCTC
ATCCTGCACCAGGCTGTCTCGGTCATCCTGAACTTGGAGCAGCAAGTGCGAGAGCGGAACCTGAATCCCAAAGCA
GCCTGTTTGAAACGGCGAGAAGAGGAAAAGGTGTCAGGTGTGGTTGGAGACCCCCAGATGGTGCTTTCAGCTCCC
CACCCAGGCCTGAGCGAAGCCCACAACCCCGCCGGGCACATG**TGA**AAGGTATGCCTCCGTGGGACGAGCCACCCG
CTTTCAGCCCTGTGCTCTGGCCCCAGAACGGCCACTCGAGACCCCGGGCTTCATCCACATCCACACCTCACACAC
CTGTTGTCAGCATCGAGCCAACACCAACCTGACAAGGTTCGGAGTGATGGGGGCGGCCAAGGTGACACTGGGTCC
AGGAGCTCCCTGGGGCCCTGGCCTACCACTCACTGGCCTCGCTCCCCCTGTCCCCGAATCTCAGCCACCGTGTCA
CTCTGTGACCTGTCCCATGGATCCTGAAACTGCATCTTGGCCCTGTTGCCTGGGCTGACAGGAGCATTTTTTTTT
TTTCCAGTAAACAAAACCTGAAAGCAAGCAACAAAACATACACTTTGTCAGAGAAGAAAAAAATGCCTTAACTAT
AAAAAGCGGAGAAATGGAAACATATCACTCAAGGGGGATGCTGTGGAAACCTGGCTTATTCTTCTAAAGCCACCA
GCAAATTGTGCCTAAGCGAAATATTTTTTTTAAGGAAAATAAAAACATTAGTTACAAGATTTTTTTTTCTTAAT
GTAGATGAAAATTAGCAAGGATGCTGCCTTTGGTCTCTGGTTTTTTTAAGCTTTTTTTGCATATGTTTTGTAAGC
AACAAATTTTTTTGTATAAAAGTCCCGTGTCTCTCGCTATTTCTGCTGCTGTTCCTAGACTGAGCATTGCATTTC
TTGATCAACCAGATGATTAAACGTTGTATTAAAAAGACCCCGTGTAAACCTGAGCCCCCCCGTCCCCCCCCCCCC
CCGGAAGCCACTGCACACAGACAGAACGGGGACAGGCGGCGGGTCTTTTGTTTTTTTGATGTTGGGGGTTCTCTT
GGTTTTGTCATGTGGAAAGTGATGCGTGGGCGTTCCCTGATGAAGGCACCTTGGGGCTTCCCTGCCGCATCCTCT
CCCCTCAGGAAGGGGACTGACCTGGGCTTGGGGGAAGGGACGTCAGCAAGGTGGCTCTGACCCTCCCAGGTGACT
CTGCCAAGCAGCTGTGGCCCCCAGGGCTACCCTACACAACGCCCTCCCCAGGCCCCCTAAGCTGCTCTCCCTTG
GAACCTGCACAGCTCTCTGAAATGGGGCATTTTGTTGGGACCAGTGACCCCTGGCATGGGGACCACACCCTGGAG
CCCGGTGCTGGGGACCTCCTGGACACCCTGTCCTTCACTCCTTTGCCCCAGGGACCCAGGCTCATGCTCTGAACT
CTGGCTGAGAGGATGCTGCTCAGGAGCCAGCACAGGACACCCCCCACCCCACCCCACCATGTCCCCATTACACCA
GAGGGCCATCGTGACGTAGACAGGATGCCAGGGGCCTGGCCAGCCTCCCCCAATGCTGGGGAGCATCCCTGGGCC
TGGGGCCACACCTGCTGCCCTCCCTCTGTGTGGTCCAAGGGCAAGAGTGGCTGGAGCCGGGGGACTGTGCTGGTC
TGAGCCCCACGAAGGCCTTGGGCTGTGCGTCCGACCCTGCTGCAGAACCAGCAGGGTGTCCCCTCGGGCCCATCT
GTGTCCCATGTCCCAGCACCCAGGCCTCTCTCCAGGTCTCCTTTTCTGGTCTTTTGCCATGAGGGTAACCAGCTC

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FIGURE 5132B

TTCCCAGCTGGCTGGGGACTGTCTTGGGTTTAAAACTGCAAGTCTCCTACCCTGGGATCCCATCCAGTTCCACAC
GAACTAGGGCAGTGGTCACTGTGGCACCCAGGTGTGGGCCTGGCTAGCTGGGGGCCTTCATGTGCCCTTCATGCC
CCTCCCTGCATTGAGGCCTTGTGGACCCCTGGGCTGGCTGTGTTCATCCCCGCTGCAGGTCGGGCGTCTCCCCCC
GTGCCACTCCTGAGACTCCCACCGTTACCCCCAGGAGATCCTGGACTGCCTGACTCCCCTCCCCAGACTGGCTTG
GGAGCCTGGGCCCCATGGTAGATGCAAGGGAAACCTCAAGGCCAGCTCAATGCCTGGTATCTGCCCCCAGTCCAG
GCCAGGCGGAGGGGAGGGGCTGTCCGGCTGCCTCTCCCTTCTCGGTGGCTTCCCCTACGCCCTGGGAGTTTGATC
TCTTAAGGGAACTTGCCTCTCCCTCTTGTTTTGCTCCTGGCCCTGCCCCTAGGTCTGGGTGGGCAGTGGCCCCAT
AGCCTCTGGAACTGTGCGTTCTGCATAGAATTCAAACGAGATTCACCCAGCGCGAGGAGGAAGAAACAGCAGTTC
CTGGGAACCACAATTATGGGGGGTGGGGGGTGTGATCTGAGTGCCTCAAGATGGTTTTCAAAAAAATTTTTTTAA
AGAAAATAATTGTATACGTGTCAACACAGCTGGCTGGATGATTGGGACTTTAAAACGACCCTCTTTCAGGTGGAT
TCAGAGACCTGTCCTGTATATAACAGCACTGTAGCAATAAACGTGACATTTTATAACG

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FIGURE 5133

MNQPQRMAPVGTDKELSDLLDFSMMFPLPVTNGKGRPASLAGAQFGGSGLEDRPSSGSWGSGDQSSSSFDPSRTF
SEGTHFTESHSSLSSSTFLGPGLGGKSGERGAYASFGRDAGVGGLTQAGFLSGELALNSPGPLSPSGMKGTSQYY
PSYSGSSRRRAADGSLDTQPKKVRKVPPGLPSSVYPPSSGEDYGRDATAYPSAKTPSSTYPAPFYVADGSLHPSA
ELWSPPGQAGFGPMLGGGSSPLPLPPGSGPVGSSGSSSTFGGLHQHERMGYQLHGAEVNGGLPSASSFSSAPGAT
YGGVSSHTPPVSGADSLLGSRGTTAGSSGDALGKALASIYSPDHSSNNFSSSPSTPVGSPQGLAGTSQWPRAGAP
GALSPSYDGGLHGLQSKIEDHLDEAIHVLRSHAVGTAGDMHTLLPGHGALASGFTGPMSLGGRHAGLVGGSHPED
GLAGSTSLMHNHAALPSQPGTLPDLSRPPDSYSGLGRAGATAAASEIKREEKEDEENTSAADHSEEEKKELKAPR
ARTSPDEDEDDLLPPEQKAEREKERRVANNARERLRVRDINEAFKELGRMCQLHLNSEKPQTKLLILHQAVSVIL
NLEQQVRERNLNPKAACLKRREEEKVSGVVGDPQMVLSAPHPGLSEAHNPAGHM

FIGURE 5134

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CAGCAACTCCGTGGCCAAGCTGAGGAGGCCCAGGGCCCGCTCCTGCTTCTCCACGGGTGTGCTCTGTGGCCCCCG
ATGGAAGGGGGAAGGATCCAAGCAGGCCCTCCCTGCCCAGGGCAGAAGATTCTGGAGTCCTGGGCGTTGCCTGTG
AGTGTTCTGAGAGATAAGGGCCCCGCCCGCCCCGCCCCGGGACCAAGGTCCTCGTCCCGTCCCTTGCTGCGCCGG
GAACTCCTGCCCCACGCAGGCTTCTGGTCTCCACACTGGGCTTGTTCCTGGGTGATGAGATTCGGCTCCACCCTC
ACGGGCTGCCAGCCTCCTGCCCGATGGGTGAGCCTCTGCTGCTGCTTCAGCAAAGGGCGGCCCCACTTCCCACAC
TGGCAGGTGGGGACAGGGAGACCCTGGGCCTCCCCAGAGCTCATGGGTTAGCTTCCACACCCTCATGCTGTCATG
AGCCTTTCTCACAGGGTCAGAAGAGTCTGCATCTGACACAGAGACCCCAGTCCACATAGTCAGGGCTGGGCCAGA
GGGAGGGACTTGGGGCTGATGGGGAGGAGGCTCGGCGTGAGAGTGAGGTCTTTGCCCAAGGAGGGTATGAAAGCT
GGGGCTTTAGTGGGTGGGTAGGAGTTGGCCAGCAGAGAGCCGACGGAAGAGTTAATTTAAGTTTATGGACCTGTA
AGTGCTCCGAGTCCCAGGGTGTCTGGGTGTTAGCTGCTGACTGGTGTCCTCATGAGTCGGGCTGGGTGAGGCTGG
GTTAGGAAGGGTTCCACAAGCCCCCCGGGTCCACTGAGGTTTGCCCCTGAGATGATGAACCGAAGCTTTTAGAGC
TGGGCAGGCGTGAGGGTGACCCATAACTCTCTCTGTCCTGCCTGCAGGTCTTGAGGACCGGCCCAGCTCAGGCTC
CTGGGGCAGCGGCGACCAGAGCAGCTCCTCCTTTGACCCCAGCCGGGTAGGAGTCCCCGTGAGGCCTGAGACCCT
GAGTTTCCTGTCCCCAGAGTTGGGGGCGAGGGGTGTGGGGAAACTGAGGCTGAGAGAAGGGGCCAGCCTTCCAGG
GGTTTGGACTGGGGGACATGGGTTTGAGTCCTGCCTCTCCAGCTGTAATGCGGGGTGGAGGGGGGGCCTGTGAAG
CCCCAGCACCTCTCATCCCCACCCCATCTCCCCTAGACCTTCAGCGAGGGCACCCACTTCACTGAGTCGCACAGC
AGCCTCTCTTCATCCACATTCCTGGGACCGGGACTCGGAGGTGAGTGCCTGGCCTGGTGCGGTCCCTCTGCTGTG
CACAGATGTGCAGACGTGGGCCTTGGCATGGTCAGTGCACGCACAGCGCCAGGCAAGTCCCCAGCGTTCACCCAG
AGGGTGTGGACAGCCGAAGCCTCTGCCCGTCCTGGGAGCAGCTGCGGGGAGGTGCAGGGGACGTGGCCCGGACTC
CCTGGCACGGCACTCTGCAACTAGGCTTCCCCGCCTGAGCGTAGAGGCAGGGAGGCCGTTCCAGACCCCACTTCC
TCCCTGGGATTTCTGCAGGGCTCCTCCTGCTTCCCGGGGAGGGGTCAGCCGGGCTGGCCTGTGCCCGCTGGGAAG
GAGGCGTAGGAGTTCTGGAGACTCGGGAGGGCGGCCAGAGTGTGCGGTGGTCAGAGCCCATGCCCTTCCGCAGAC
CGCCCGCCCGCCCTCTTTCCCTGGGGGGCCCTCCTGTTAACCGAGAGAATCGTGACTCAGGTTGGGCTCGGTGGC
TCACGCCTGTAATACCAGCACTTTGGGAGAGCGAGGTGGGTGGATCACCTGAGGTCAGGAGTTTGAGACCAGCCT
GGCCAACATGGTGAAACCCCGCTTCTACCAAAAACACAAAAATTAGCCGGTCATGGTGTTGGATGCTTATAGTGC
CAACTACTCAGGAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGGTGGAGGCTGCAGTGAGCCGAGATCACGC
CATTGCCCTCCAGCCTGGGTGATGGAGCGAGATTCCATCTT
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FIGURE 5135A

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GCGGGCGGCGGCGACCGCGGCGCCAGTGAGGGGGCCCTGGGGCCCGGGCGGCTCCGGGCCGGGGCCCCGCCGCGG
GACGGACCATGCTACGCTCCACTGGCTTCTTCCGGGCCATTGACTGCCCCCTATTGGTCTGGGGCGCCCGGGGGGC
CCTGCCGGCGGCCCTACTGCCACTTCCGGCACCGCGGGGCCCGGGGCTCCGGCGCGCCCGGTGACGGCGGAGAGG
CGCCCCCCGCAGCAGGGCTGGGTTACGACCCCTACAACCCTGAGCTGCCCAAGCCCCCCGCGCAGAGGGAGAATG
GCACCCTGGGCCTGGGGGAGGAGCCGCGCCCGGATGTGCTGGAGTTGGAGCTGGTCAACCAGGCCATCGAGGCCG
TGCGCAGTGAGGTGGAGCTGGAGCAGCGGCGCTACCGGGAGCTGCTGGAGACGACCCGTGAGCACCGCTCCGCCG
AGGCCCCCGCCCTGGCGCCCCGCGGCCCCAACGCCAGCCCCACTGTGGGCCCGGACGAGGATGCCTTCCCACTGG
CCTTCGACTACAGCCCCGGCAGCCACGGCCTATTAAGCCCTGATGCCGGCTACCAGCCCACCCCACTGGCCGCCC
CTGCCGAGCCGGGCAGCAAGTACTCGCTGGCGTCCCTGGACAGGGGTCAGGGCAGAGGTGGAGGGGGTGGCGGTG
CCCTGGAATACGTCCCCAAGGCTGTGAGCCAGCCCCGGCGGCACAGCCGCCCCGTTCCCAGTGGCAAGTACGTGG
TGGACAACTCCAGGCCACCCACAGACCTGGAGTATGACCCTCTCTCCAACTACTCGGCCCGGCACCTCAGCAGGG
CCAGCTCCCGGGATGAGCGGGCCGCCAAGCGGCCCCGGGGCTCCCGCGGCAGTGAGCCCTACACACCTGCTCCCA
AGAAGCTCTGTGACCCCTTTGGCAGTTGCGATGCAAGGTTCTCAGACTCAGAAGATGAGGCCGCCACGGTCCCAG
GTAACGAGCCCACCACGGCCAGCACCCCCAAAGCCAGGGCCGACCCTGAGATCAAGGCCACCGGGCAGCCACCCT
CCAAAGAGGGCCTGGAGGCCGAGGGGGGCGGCCTGCGGGAGACCAAGGAGACGGCCGTGCAGTGCGACGTGGGGG
ACCTCCAGCCGCCCCCAGCCAAGCCCGCCTCCCCAGCCCAGGTCCAGTCCTCACAGGATGGGGGCTGCCCCAAGG
AGGGAAAACCCAAGAAGAAAAAAACCGGGGCCCCACCTGCCCCCAGCTGCAAAGACGGGGCCCAGGGGAAGGACA
AGACCAAGGACAAGGGCCGAGGGCGGCCTGTGGAGAAGCCCCGTGCGGACAAGAAGGGCCCGCAGGCCAGCAGCC
CCCGGCGCAAGGCAGAGCGGCCGGAAGGGACCAAGAAGAAGCCATCTTCGGCCACTCCTGTGGCCACCTCAGGGA
AAGGGAGGCCTGACCGGCCAGCGCGGCGGCCGAGCCCCACAAGCGGGGACTCCCGACCGGCGGCCGGCAGAGGCC
CACCCCGCCCCCTCCAGCTGCCCGACAGGAAGAGCACCAAGGCCCCGTCGGGGAAGCTAGTGGAGCGGAAAGCCC
GCTCACTAGACGAGGGCGCCTCCCAGGACGCCCCCAAGCTGAAGAAGCGGGCCCTGAGCCACGCCGACCTCTTTG
GGGACGAGAGTGAGGACGAGGCCGCAGGGCCAGGGGTGCCGAGCGTGTGGCCCTCTGCCCTCCCCAGCCTCAGCT
CGGACTCAGACTCCGACTCAGACTCCAGCCTGGGCTTCCCGGAGGCGCAGGGGCCGCCCAAGCGGCTCAAGGCCT
CCCCGCCCCCCTCCCCCGCCCCATCCTCCTCCTCCTCCTCCTCCTCCACCTCCAGCGCGGGGGCGGATGTGG
ACTACTCGGCCCTGGAGAAGGAGGTGGACTTTGACTCCGACCCCATGGAGGAGTGCCTGCGGATCTTCAACGAGT
CCACCAGCGTCAAGACGGAGGACAGAGGCCGGCTGGCCCGGCAGCCCCCCAAGGAAGAGAAGAGTGAGGAGAAGG
GGCTTTCGGGTCTGACCACTCTGTTCCCCGGGCAGAAGAGGAGGATCTCCCACCTTTCCAAGCAAGGCCAGGAGG
TGGAGCCCCCGAGGAGGGGTCCCGCGGTGCCCCCGGCCCGGCCCCCGACGGCGCAGGAGGTGTGCTACCTGCGGG
CCCAGCAGGCGCAGAGGGCATCGGCGAGCTTGCTGCAGGCCCCCGCCAGGCTGGCAGAGAAGTCGCCCTCCGTCC
ACATTTCCGCCCCTGGCGAGAAGAGGAGGATCGCCCACATCCCCAACCCCCGCCTGGCTGCAGCCCCCACAGGTG
CCAAGAGGACCCTTGCGGCCAGCGGCAGCCAGTCCTCCAACGGCCCTGAGCCAGGTGGCCAGCAGCTGAAAACAC
GCACATTGTCGGGGATGGCGTCCAAGACTACCACCACCATCATCCCTAAGCGAATCGCCCACAGTCCATCCTTAC
AGAGTTTAAAGAAACCCATTATCCCCAAAGAGTTTGGGGGCAAAGTCCCCACCGTCATCCGCCAGCGCTATCTCA
ACCTGTTCATCGAGGAGTGTCTCAAGTTCTGTACCTCCAACCAGGAGGCCATAGAGAAGGCACTGAACGAGGAGA
AGGTGGCCTATGACCGCAGCCCCAGCAAGAACATCTACCTGAATGTGGCCGTGAACACCCTCAAGAAGCTCAGGG
GCCTGGCCCCCAGCGCTGTGCCCGGCCTCAGCAAAACCAGTGGCCGCAGGGTTGTGTCCCACGAGGTGGTGTTGG
GGGGCAGGTTGGCCGCCAAGACCAGCTTCTCGCTCAGCCGTCCAAGCAGCCCCCGGGTGGAGGACCTGAAAGGGG
CTGCCCTGTACAGCCGCCTCAGGGAGTACCTGCTCACCCAGGACCAGCTCAAGGAGAACGGCTACCCCTTCCCGC
ACCCAGAGCGGCCCGGGGGCGCAATCATCTTCACAGCTGAGGAGAAGAGGCCCAAGGACTCTTCCTGCAGGACCT
GCTGCCGCTGTGGCACCGAGTACCTCGTGTCCTCTTCAGGCCGCTGCATCCGGGACGAGGAGTGTTATTACCACT
GGGGACGGCTGCGCCGGAACCGGGTGGCCGGAGGCTGGGAGACCCAGTACATGTGCTGCTCGGCTGCCGCCGGCT
CTGTCGGCTGCCAAGTCGCAAAGCAACACGTGCAGGATGGCCGGAAGGAGCGCCTTGAGGGCTTCGTGAAGACCT
TTGAGAAAGAGCTCTCAGGAGACACCCACCCGGGGATCTACGCCCTGGACTGCGAGATGTCCTACACCACATATG
GCCTGGAGCTGACGCGCGTCACGGTGGTCGACACGGACGTGCACGTGGTTTATGACACCTTCGTGAAGCCTGACA
ACGAGATCGTGGACTACAACACCAGGTTTTCGGGGGTGACGGAGGCTGACCTTGCCGACACAAGTGTCACGCTGC
GTGACGTCCAGGCCGTTCTGCTGAGCATGTTCAGCGCTGACACCATCCTCATCGGACACAGCCTGGAGAGCGACC
TCCTGGCCCTGAAGGTCATCCACAGCACCGTGGTGGACACGTCTGTGCTCTTCCCCCACCGCCTGGGCCTCCCCT
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5572/6881
FIGURE 5135B

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ACAAGCGGTCCCTGCGGAACCTCATGGCCGACTACCTCAGACAGATCATCCAGGACAATGTGGATGGGCACAGCT
CCAGCGAGGACGCCGGCGCCTGCATGCACCTGGTGATCTGGAAGGTTCGAGAAGACGCCAAGACCAAGCGATGAC
GCCTGCCCGCCTCCCACCCGCCTCTCCTGCCGTCCCGCTGGTCCTTAGCCCCATGCCTCTTCCAAAACAGTGCAA
TAAATCTCCGGTAACCCGTCCACCTGGCCGAGGCAGCCCAGAGCAGCGGGATGAGCTGGCGGCCAGAGAACGCCC
AGCCCAGCCCACCCCCGCTCACGTCCTGCCGCACCCCTCCGCCGGTCCCCACCCTCTGCCCCCCAGCCCTCTGGC
GTCTCTAGAAACTGCTGCTGATGGAGACCAGGACAGAGCCCGCCCCCACCCGGCCCGCAGCCCCTCCTGCCCCTC
CTGCCAGGCCCTCCCTCCCGGGTGGTGGCCGGCACCTCTGCTCCTCACGTGGGTCGCGGGGCGGGCTTGTCCCAG
GTTTGTTTGAGACAGTCTTTTTTTATTTTGTATTGTTATTTTTATTATTTTTAATTTAAACCTGATGACTTGCAC
AGCATCTTTCCCACCGGGAAGAGCGGGCCTGCTGCCTTCCCTCCTGCGGGGTGGGGGTGGGACAGACCCCAGTGG
GGGCCAGGGCCACACTCAGCGCAGTGTGGGCTGGACCCGCCTCTGTGCTCCAGGGGCTGGCCGGTCTTCGGGGGC
GCCGGCTTCCACCACTCGCCGCCCCACCCCTGCACTCCGTGACCTCTGAGAACCCAGCTGGCCCCTCGTTAGCCC
CAGGGTCTGCCGTCTAGAGGGAGCCCACCGGCCTCCGGACACTGTCTTCCCGCTAGAGCCCCGTCCTCCTCTGCG
GGGCTCTCCGGACCCCCTTCCCCCTCACCTCCAGGCAGGGACAGAATAAATGTTTGTATGGATTTT
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5573/6881
FIGURE 5136

MLRSTGFFRAIDCPYWSGAPGGPCRRPYCHFRHRGARGSGAPGDGGEAPPAAGLGYDPYNPELPKPPAQRENGTL
GLGEEPRPDVLELELVNQAIEAVRSEVELEQRRYRELLETTREHRSAEAPALAPRGPNASPTVGPDEDAFPLAFD
YSPGSHGLLSPDAGYQPTPLAAPAEPGSKYSLASLDRGQGRGGGGGGALEYVPKAVSQPRRHSRPVPSGKYVVDN
SRPPTDLEYDPLSNYSARHLSRASSRDERAAKRPRGSRGSEPYTPAPKKLCDPFGSCDARFSDSEDEAATVPGNE
PTTASTPKARADPEIKATGQPPSKEGLEAEGGGLRETKETAVQCDVGDLQPPPAKPASPAQVQSSQDGGCPKEGK
PKKKKTGAPPAPSCKDGAQGKDKTKDKGRGRPVEKPRADKKGPQASSPRRKAERPEGTKKKPSSATPVATSGKGR
PDRPARRPSPTSGDSRPAAGRGPPRPLQLPDRKSTKAPSGKLVERKARSLDEGASQDAPKLKKRALSHADLFGDE
SEDEAAGPGVPSVWPSALPSLSSDSDSDSDSSLGFPEAQGPPKRLKASPPPSPAPSSSSSSSSSTSSAGADVDYS
ALEKEVDFDSDPMEECLRIFNESTSVKTEDRGRLARQPPKEEKSEEKGLSGLTTLFPGQKRRISHLSKQGQEVEP
PRRGPAVPPARPPTAQEVCYLRAQQAQRASASLLQAPARLAEKSPSVHISAPGEKRRIAHIPNPRLAAAPTGAKR
TLAASGSQSSNGPEPGGQQLKTRTLSGMASKTTTTIIPKRIAHSPSLQSLKKPIIPKEFGGKVPTVIRQRYLNLF
IEECLKFCTSNQEAIEKALNEEKVAYDRSPSKNIYLNVAVNTLKKLRGLAPSAVPGLSKTSGRRVVSHEVVLGGR
LAAKTSFSLSRPSSPRVEDLKGAALYSRLREYLLTQDQLKENGYPFPHPERPGGAIIFTAEEKRPKDSSCRTCCR
CGTEYLVSSSGRCIRDEECYYHWGRLRRNRVAGGWETQYMCCSAAAGSVGCQVAKQHVQDGRKERLEGFVKTFEK
ELSGDTHPGIYALDCEMSYTTYGLELTRVTVVDTDVHVVYDTFVKPDNEIVDYNTRFSGVTEADLADTSVTLRDV
QAVLLSMFSADTILIGHSLESDLLALKVIHSTVVDTSVLFPHRLGLPYKRSLRNLMADYLRQIIQDNVDGHSSSE
DAGACMHLVIWKVREDAKTKR

5574/6881
FIGURE 5137

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TGCAACGGGGCCCCCCCAGGGCAGCTAGGAGGTCCTCCCCTCTCCTCTCCACCACCCCCTGCTGCCCCCCTCCCG
GGGTGGGGTTTGGGGGGGTGGAGTGGACTTCTGGGAGCCGGCCCGGGGAAAGCACCCCCTGCCCCATCCCTGCAG
ATTGGGATGAAGTGTTCAGACAGCCATAGAGGAGTCGGGGGTTGACACGGCCCCTGCCTCTCCCCACCCCACCCC
CACCCCACCGAAAGCCATGGGAGTAGTTCAGGGAAATGGGGGTGCAGCCCAGCCACCCCCCATTCGGGTACTCAA
TCTCAGGTGTCCACAAGTTCTGCCCACGGTAGGGGCTGCCTGGCCCCCCAGACCTCGGGGGTAGAGCCAGGAGTG
GGGCAGCGTTAGGATGCCCGGAGGGGCTCCAGGTGTTGCTTCTGAGACCTGGGATGGGGAGGGAGGGGACCTCTG
GGTTCTTCCAAAGAACATTTGACTCAGTGGGGTCGGGAGGGAATCCTGGCTTATTTATTTTCCTCTGTCCTCGGG
TGTGGGGGCCCTAGCTCGCCCTCTCTGGGTGGGTGGGTGAGAGAGGCTGCAGGGGAGGCTGGCACCGGGCTTGGG
CCTCCAGTCCCTGCCTTGCTGACTTTGGCCGTTGCGGTATCACGTGACAATCAACTCTCCCTTAACGACGACTGC
GGCTGTTGGGCTGCGCTGCCCTCCCTGGCCTGCAGGTGGGGCCGTGGAGCCCATGCCCGCCGGGGTTGCAGGCTC
TTCCGGGCCTGGGCTGCAGCCTGGCCCGGCCCTGCTTCCCTGGCCTCCCCTCCTTCTCCTGGGTGCTTGGAAGAG
GTGGGTCCTGGCCCGTGGTTGAGGTCTTGCCTCGTGGACTGGAAGCAGAGGGCTGGCTGTGCAGCCTCCTGGGGT
AGCTCGTTTTTTTTGCACCGGGTAGAATATTTTTTCAGGCACGGATTCCTTTTTTTTCTGGGCCCCCATGGGTGGT
CCGGCATCCTCAGGGGGTGTGAGTGTGTGTGGGGGGTCTCTGAGCTGAACTTGGGTGGGGTGGGGACTTGTTCCT
CGGGGGGCCACCTTTGTGTCCTTGTCAGCGGTCGTCCTGCTGTGGCCTGGGTTGCATTTCCTCTTGGGGGGGGTAT
TGAGGACCCCCAGCCTGGAATGAGAAGGGTCCCCGGTTCCATGTCAGACCCAGAAAGGTGGATCCCCCCACTGTT
GGCTGCAGGAGGTTTTTGGTACCCCCTTTTGTTCCAGAACCGTCCTGCCTCTCGCTTGGGGACAGGGGGGCTTTG
GATGGCACTGGTGTGCACCTGGACCCAGCCCCGGCCTGGCAGGATCCAGGGATGGGTGCCTGGGATCCTGGGGGGG
AGGGAGGCAGGGGACGCCCTTCTGGAGCTGGGCTCGGAGGGTCCTGCCCCATCCAGCCCTCGGCTCTCTGTGTTC
TCTGTCCCTAGCCTCAAACCCTCTTCTGGCAGCGCTAGTGAGATGCCTTAGTCTGTGGGGGTGGGTGGGGGACTG
GGGCCCCGTTTTCCTTTGTGAGTCTTGGTTGGCCCCAGCCCTGGCAGGGGCCTGTCTGGAGCAGGGGTAGGTAGG
GCTGTGGGTTCCAGAACTCTATAACTGGGCCCCTCTCCAGTGTCCAGGGGCTTGGAGAGACCTGCGCCCACCCCT
CCACTCTCCCAGGAGTCGCTGATCACTGGGACCTGGTTCCAGCCGTTTGCAGGGGAGGCGGCTCCGAGAGGCGTG
TGCTTTCCGTGGGTGGCGCCCCTCCCCCGCCCTGCCTGGCCTCATCCTTGTATTTAATTAATTAAACAAGCCCCT
TTTTAAACCCT
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5575/6881
FIGURE 5138

GCGGAGGGACCGACGGACGCACGGGCGGGCGGCCGGGAGCCATGGAGCGCGGCCCTGGGGCCCCGGGGCGCGGGC
CGGGGTGGGCTTCCCACGGCACGACATGGAGACCTGTGGTTGCGAGGCTCCCTGGGGCTCGGCTTGGACCGCGAT
GGGGCTGGGCCCTGGCCTCCTAACGGGGCTGCTGTCTGGGGCGGTAGCTGGGGGGGCGCTCTCCCCCCTGCCCGC
GACTCGGAGCACCCCCACCCCTCCCCTGCCGGGCCAGGCCGGGCGGCGTTGTTGGCGGGGGCCCCGGTGGAGGCC
CGGCCTGGGCGGCGCCCGCC**ATG**AATGGGCTGTCGCTGAGTGAGCTCTGCTGCCTCTTCTGCTGCCCGCCCTGCC
CCGGCCGCATCGCTGCCAAGCTCGCCTTCCTGCCGCCGGAGGCCACCTACTCCCTGGTGCCTGAGCCCGAGCCGG
GGCCTGGTGGGGCCGGGGCCGCCCCCTTGGGGACCCTGAGAGCCTCCTCGGGCGCACCCGGGCGCTGGAAGCTGC
ACCTGACGGAGCGTGCCGACTTCCAGTACAGCCAGCGCGAGCTGGACACCATCGAGGTCTTCCCCACCAAGAGCG
CCCGCGGCAACCGCGTCTCCTGCATGTATGTTCGCTGCGTGCCTGGTGCCAGACAAGGACACCAGGCTCAGGGAG
GCCATCCCCAGCTGGCATGGGTGGGCAGGCTGGGCGACTCCAACAACCCAGCGCCTGGTGGTTGCCTGCTGGGCG
AGAGCTGGGGCACAGGGGCTGCCCTGGCCTGCGGGTACATCCACCTTCTCGCCAGGTACACGGTCCTCTTCTCGC
ACGGCAATGCCGTGGACCTGGGCCAGATGAGCAGCTTCTACATTGGCCTGGGCTCCCGCCTCCACTGCAACATCT
TCTCCTACGACTACTCCGGCTACGGTGCCAGCTCGGGCAGGCCTTCCGAGAGGAACCTCTATGCCGACATCGACG
CCGCCTGGCAGGCCCTGCGCACCAGGTACGGCATCAGCCCGGACAGCATCATCCTGTACGGGCAGAGCATCGGCA
CGGTGCCCACCGTGGACCTGGCCTCGCGCTACGAGTGTGCCGCGGTGGTGCTGCACTCGCCGCTCACCTCGGGCA
TGCGCGTCGCCTTCCCCGACACCAAGAAGACCTACTGCTTCGACGCCTTCCCTAACATCGAGAAGGTGTCCAAGA
TCACGTCTCCCGTGCTCATCATCCACGGCACGGAGGACGAGGTGATCGACTTCTCGCACGGGCTGGCGCTCTACG
AGCGCTGCCCCAAGGCGGTGGAGCCGCTGTGGGTGGAGGGCGCCGGGCACAACGACATCGAGCTCTACAGCCAGT
ACCTGGAGCGCCTGCGTCGCTTCATCTCCCAGGAGCTGCCCAGCCAGCGCGCC**TAG**CGGCGGCCCCAACCGGCCG
GACCTCAGCAATAAGGCGGCCCCCGGACCTCACCCCGCGCCGGCCCCCACCCAGGGGCTGCATGTGGACCCCCCG
GGCGGCCCAGGGGACCCCGCCCCGACCCAGGGGCTGTGGACGATGTACAGGCAACAGAGCTACGCACTCCTTTCC
TTTTGGAAGCAAGAAGAAAATACGTGAAAACGGAAATTAAAGATTTAAAATTTTAAAAAAAAAAAAAAAAAA

5576/6881
FIGURE 5139

MNGLSLSELCCLFCCPPCPGRIAAKLAFLPPEATYSLVPEPEPGPGGAGAAPLGTLRASSGAPGRWKLHLTERAD
FQYSQRELDTIEVFPTKSARGNRVSCMYVRCVPGARQGHQAQGGHPQLAWVGRLGDSNNPAPGGCLLGESWGTGA
ALACGYIHLLARYTVLFSHGNAVDLGQMSSFYIGLGSRLHCNIFSYDYSGYGASSGRPSERNLYADIDAAWQALR
TRYGISPDSIILYGQSIGTVPTVDLASRYECAAVVLHSPLTSGMRVAFPDTKKTYCFDAFPNIEKVSKITSPVLI
IHGTEDEVIDFSHGLALYERCPKAVEPLWVEGAGHNDIELYSQYLERLRRFISQELPSQRA

5577/6881
FIGURE 5140

ATGAATGGGCTGTCGCTGAGTGAGCTCTGCTGCCTCTTCTGCTGCCCGCCCTGCCCCGGCCGCATCGCTGCCAAG
CTCGCCTTCCTGCCGCCGGAGGCCACCTACTCCCTGGTGCCTGAGCCCGAGCCGGGGCCTGGTGGGGCCGGGGCC
GCCCCCTTGGGGACCCTGAGAGCCTCCTCGGGCGCACCCGGGCGCTGGAAGCTGCACCTGACGGAGCGTGCCGAC
TTCCAGTACAGCCAGCGCGAGCTGGACACCATCGAGGTCTTCCCCACCAAGAGCGCCCGCGGCAACCGCGTCTCC
TGCATGTATGTTCGCTGCGTGCCTGGTGCCAGGTACACGGTCCTCTTCTCGCACGGCAATGCCGTGGACCTGGGC
CAGATGAGCAGCTTCTACATTGGCCTGGGCTCCCGCCTCCACTGCAACATCTTCTCCTACGACTACTCCGGCTAC
GGTGCCAGCTCGGGCAGGCCTTCCGAGAGGAACCTCTATGCCGACATCGACGCCGCCTGGCAGGCCCTGCGCACC
AGGTGA

FIGURE 5141

GGGATTTGCACGGCAGCAGAGTCACCGTGGAGAGGCCAGGGTATCACAAACTT**ATG**GATTTTGACAAGAAAGGAG
GGAAAGGGGAGACGGAGGAGGGCCGGAGAATGTCCAAGGCCGGCGGGGGCCGGAGCAGCCACGGCATCCGGAGCT
CGGGGACCAGCTCGGGGGTCCTGATGGTGGGCCCCAACTTCCGCGTCGGCAAGAAGATCGGCTGCGGCAACTTCG
GGGAGCTCCGCCTAGGAAAGAATCTCTATACAAATGAATACGTGGCTATCAAATTGGAGCCGATCAAGTCCCGGG
CCCCGCAGCTGCACCTGGAGTACCGGTTCTACAAGCAGCTCAGCGCCACAGAGGGCGTCCCTCAGGTCTACTACT
TCGGTCCGTGCGGGAATTACAACGCCATGGTGCTGGAGCTGCTGGGGCCCAGCCTGGAGGACCTGTTCGACCTGT
GCGACCGGACCTTCACGCTCAAGACGGTGCTGATGATCGCCATCCAGCTGATCACGCGCATGGAGTATGTGCACA
CCAAGAGCCTAATCTACCGGGACGTGAAGCCCGAGAACTTCCTGGTGGGCCGCCCGGGGACCAAGCGGCAGCATG
CCATCCACATCATCGACTTCGGGCTGGCCAAGGAGTACATCGACCCCGAGACCAAGAAGCACATCCCGTACCGCG
AGCACAAGAGCCTGACGGGCACGGCGCGCTACATGAGCATCAACACGCACCTGGGCAAGGAGCAGAGCCGCCGCG
ACGACCTGGAGGCGCTGGGCCACATGTTCATGTACTTCCTGCGCGGCAGCCTCCCCTGGCAGGGGCTCAAGGCCG
ACACGCTCAAGGAGCGGTACCAGAAGATCGGGGACACCAAACGCGCCACGCCCATCGAGGTGCTCTGCGAGAACT
TCCCAGAGGAGATGGCCACGTACCTGCGCTATGTGCGGCGCCTGGACTTCTTCGAGAAGCCCGACTATGACTACC
TGCGGAAGCTCTTCACCGACCTCTTCGACCGCAGTGGCTTCGTGTTCGACTATGAGTACGACTGGGCCGGGAAGC
CCCTGCCGACCCCCATCGGCACCGTCCACACCGACCTGCCCTCCCAGCCTCAGCTCCGGGACAAAACCCAGCCGC
ACAGCAAAAACCAGGCGTTGAACTCCACCAACGGGGAGCTGAATGCGGACGACCCCACGGCCGGCCACTCCAACG
CCCCGATCACAGCGCCTGCAGAGGTGGAGGTGGCCGATGAAACCAAATGCTGCTGTTTCTTCAAGAGGAGAAAGA
GAAAATCGCTGCAGCGACACAAG**TGA**CCCTGGGCGCGTGCAGCCCCCTGAATCTTCTCCGTGCAGCCCCTTGGGG
CGCGACCTTGTGCGAGGCCCTCGGGGCCCACCCACAGCGGCCCAGGGCCAGACCCTGGCTGGAAGCCAGAACGCA
GACTGCAGGGGCCGCGCCTGGCTCAGGCGGCCCCACCCCCGGGACGTGGGGTCACTTCCTTCATGTAAGACTTTG
GCCGAAATTTCTACACCTGTGTCTAGTCCTCCCCTCCAAGAGCATTAACTATTTAAAACAAGGAAAAGAGGAAAA
AAAAAACAGAGGCCCGCCCTACCCCACTCCTGCCCCTCCGTTTCTTTGCTGAAGTGAGTAGTGTGATCCTGGAGG
CCCCCCGGCCTGGCCCCGCCCCGCCAGCCGCCCCCGTTAGCGTCATAAAGTCCAGCTTGTCTCCCTCGATCCAAA
GGCCGTTTTCTCGAGGGGAGGGCAGGCCCGGCCTGGAGGGGTGCTGTGGAGCTGTCTTGCCCAGGCCCTCCTGGG
AGGGGGACAGGCATTGTTGCCAGGGGTGAGGCCGTGCCCCAGGCCTCCCCGAAACCAAAGGGGAAGGCAGGGGTG
GGGCCGTGGCTGAAGCCGGCTCCCCAACCAAAATGCTGCACCAAAGCTCGGGCGCCGCGGGCACGGCTGCTGCAG
TCTCTTCCCAGCCTGGCCCTGGCAAGGGGCGGGTGGGCGCTGCCAGGCGGGTGCTTCTCGACGCACTTGCTCCCG
GAGGCTGCGCCCCGGCGCCTGGAACCCGAGGTGGGAGGACCGGTTGGTGTCACCCTGCTCGGCCCTCAGCCCTGC
CGCGTGGGGCGCGTGGGCACGGAGCTTCCTGCCTCTGCTCCGACACCCGGCAAGCAGCCGGAGACAAAACGCCTT
AAAGCCCCCGGCCCAGCCCTGCAGGTATATTGCAGGGGCCTGGGGGCGGCCCTGGACTGGCGGGCGGTTCCCCAG
TGGGGTGCCCTGGAGGCTGCCGGGCAGAGTGGAGCAGCTTGGGGCCGTGCCCAGGCGGTGGCTGTGAGTCTAGT
TTTTGCTTTACCAAGTGTACAGAAATGGCATTTACGTTTCTCTGATGCTCCCTTGAAGCCATAGAATTTAGGGGC
TTTTTTAAAAAAATAAAAGAAAAATGAAACCAAAAAAAAAAAAAAA

5579/6881
FIGURE 5142

MDFDKKGGKGETEEGRRMSKAGGGRSSHGIRSSGTSSGVLMVGPNFRVGKKIGCGNFGELRLGKNLYTNEYVAIK
LEPIKSRAPQLHLEYRFYKQLSATEGVPQVYYFGPCGNYNAMVLELLGPSLEDLFDLCDRTFTLKTVLMIAIQLI
TRMEYVHTKSLIYRDVKPENFLVGRPGTKRQHAIHIIDFGLAKEYIDPETKKHIPYREHKSLTGTARYMSINTHL
GKEQSRRDDLEALGHMFMYFLRGSLPWQGLKADTLKERYQKIGDTKRATPIEVLCENFPEEMATYLRYVRRLDFF
EKPDYDYLRKLFTDLFDRSGFVFDYEYDWAGKPLPTPIGTVHTDLPSQPQLRDKTQPHSKNQALNSTNGELNADD
PTAGHSNAPITAPAEVEVADETKCCCFFKRRKRKSLQRHK

5580/6881
FIGURE 5143

ATGGCGGCGGGTGGGAGCGGCGGGCGTGCGTCGTGCCCGCCGGGGGTCGGGGTCGGCCCGGGCACGGGGGGCAGT
CCCGGGCCCAGCGCCAACGCCGCCGCCACCCCGGCCCCCGGCAACGCGGCCGCCGCCGCCGCCGCCGCCGCCGCC
GCCGCCGCCGCCCCTGGGCCGACGCCGCCCGCCCCGCCGGGCCCCGGGACAGACGCGCAGGCCGCGGGCGCGGAG
CGGGCGGAGGAGCGGCGGGCCCGGGGGCGGCGGCGCTGCAGCGCGAGGCCGCGTACAACTGGCAGGCCAGCAAG
CCCACCGTGCAGGAGCGCTTCGCCTTCCTCTTCAACAACGAGGTGCTGTGCGACGTGCACTTCCTGGTGGGCAAG
GGGCTCAGCTCGCAGCGCATCCCCGCGCACAGGTTCGTGCTGGCCGTGGGCAGCGCCGTCTTTGATGCCATGTTC
AACGGGGGAATGGCCACAACATCCACGGAGATTGAGCTGCCCGACGTGGAACCCGCCGCCTTCCTCGCACTGCTC
AAGTTTCTCTACTCGGACGAGGTGCAGATTGGCCCGGAGACGGTGATGACCACGCTATACACCGCCAAGAAGTAC
GCGGTGCCAGCGCTCGAGGCCCATTGCGTGGAGTTCCTGAAGAAGAACCTGCGAGCCGACAACGCCTTCATGCTG
CTCACGCAGGCGCGACTCTTCGATGAACCGCAGCTGGCCAGCCTGTGCCTGGAGAACATCGACAAAAACACTGCA
GACGCCATCACCGCGGAGGGCTTCACCGACATTGACCTGGACACGCTGGTGGCTGTCCTGGAGCGCGACACACTG
GGCATCCGTGAGGTGCGGCTGTTCAATGCCGTTGTCCGCTGGTCCGAGGCCGAGTGTCAGCGGCAGCAGCTGCAG
GTGACGCCAGAGAACAGGCGGAAGGTTCTGGGCAAGGCCCTGGGCCTCATTCGCTTCCCGCTCATGACCATCGAG
GAGTTCGCTGCAGGTĈCCGCACAGTCGGGCATCCTGGTGGACCGCGAGGTGGTCAGCCTCTTCCTGCACTTCACC
GTCAACCCCAAGCCACGAGTGGAGTTCATTGACCGGCCCCGCTGCTGCCTGCGTGGGAAGGAGTGCAGCATCAAC
CGCTTCCAGCAGGTGGAGAGTCGCTGGGGCTACAGCGGGACCAGTGACCGCATCAGGTTCTCAGTCAACAAGCGC
ATCTTCGTGGTGGGATTTGGGCTGTATGGATCCATCCACGGGCCCACCGACTACAAGTGAACATCCAGATTATT
CACACCGATAGCAACACCGTCTTGGGCCAGAACGACACGGGCTTCAGCTGCGACGGCTCAGCCAGCACCTTCCGC
GTCATGTTCAAGGAGCCGGTGGAGGTGCTGCCCAACGTCAACTACACGGCCTGTGCCACGCTCAAGGGCCCAGAC
TCCCACTACGGCACCAAAGGCCTGCGCAAGGTGACACACGAGTCGCCCACCACGGGCGCCAAGACCTGCTTCACC
TTTTGCTACGCGGCCGGGAACAACAATGGCACATCCGTGGAGGACGGCCAGATCCCCGAGGTCATCTTCTACACC
TAGGCTGCCCGACACCGACACCGCCCTCCCTCCGCGGGGATAGCCGCAGCCCCAGGCCATCATCTGCTGCTGGGG
TCCCCCCACCACGCGGTGCCAGGCCCAGTGTCCCCCAGGCCGTCTGTCCACTCCATGCCACCTTTCTCAGCATCA
GGACGGGGTTGCCCTGTGTTCACCACGAGTGTGGCTGCTGGATCAGGGCAGCCGGGGAGGTGGCCAGGCCAGTGG
CCAGGCCCTGTGGAGACAATCCCTCAGGACTAGGGACAGGGCTGTGCCGGCCTGGGCCAGGGCCCACGGACCCGC
AGCTCAGGGCGCCTGCCCACGTCGTCTGCCGGCGGTGCGCCGCGGGCGTCCCTCGCGTCTCTTCACTGCACATTG
CAATGCATTTGCGATTCCCATTTCTCTGCTAGGAGCCAGCCTGGGTGGCGCTGCTCCCAGAGCCGTGGGTCCCAG
ACCTTGCGTTCCTTTTGTTCCTGTCCGTTTATCAGGACACGGGCCCCACCTGTCACGTGCCCGAGGCCACCCAAG
CCCAGCCTGCGGGGCGTTCCCACTGCCTGGATGCCGGCTTGAGTTCTGCGCACGCAGGATTCAGTGTGGGGACGG
CCCCTGCCGGATAGGCCTAGCCCTGGCCCAGGTGGTGAGCGGTTTGCAGTGTCCGTTCTCATCCACCTGATGGGC
CCAGATAAAGGCCCCCGCTGTCCAGCCTCCCTGGACGGCCCTCGCGGTCCCTGCAGCCCAAGATGGGACTCAGAC
CCTGTGCCCCAGAGCTCCCCTGCCGCAGAATGGGGCCCCAGCCGGCCCCGACCGGGTCCAGGAGCACTGCTCGCC
TGTACATACTGTTGCCCTAGCCCACCTGGTGCCGTGGGAGCCACCCCCAGGTGCTGGGGGCACAGCCCCTCCCCA
CTCCGGCCACGCCCCCACCCACCCCGCGTGTTTCTGCCCTGTGACTCCTGGAACCTGCGTCCTCCCCAAAGCCAT
GGGAGGGGTGTCCTCCTCAGACCATGCCCCCAGATGATTTTTTTAAATAAAGAAACAAATGCACCTGCAAAAAAA
AAAAATAGAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5144

MAAGGSGGRASCPPGVGVGPGTGGSPGPSANAAATPAPGNAAAAAAAAAAAAAAAPGPTPPAPPGPGTDAQAAGAE
RAEEAAGPGAAALQREAAYNWQASKPTVQERFAFLFNNEVLCDVHFLVGKGLSSQRIPAHRFVLAVGSAVFDAMF
NGGMATTSTEIELPDVEPAAFLALLKFLYSDEVQIGPETVMTTLYTAKKYAVPALEAHCVEFLKKNLRADNAFML
LTQARLFDEPQLASLCLENIDKNTADAITAEGFTDIDLDTLVAVLERDTLGIREVRLFNAVVRWSEAECQRQQLQ
VTPENRRKVLGKALGLIRFPLMTIEEFAAGPAQSGILVDREVVSLFLHFTVNPKPRVEFIDRPRCCLRGKECSIN
RFQQVESRWGYSGTSDRIRFSVNKRIFVVGFGLYGSIHGPTDYQVNIQIIHTDSNTVLGQNDTGFSCDGSASTFR
VMFKEPVEVLPNVNYTACATLKGPDSHYGTKGLRKVTHESPTTGAKTCFTFCYAAGNNNGTSVEDGQIPEVIFYT

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FIGURE 5145

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TATTTATAAACACACTCACAGGGCCAGATTTGGGCCACGGGCCATAGTTGCCAGCCCGGCTTTAACTGCTGGTCC
TCACGTTAGTCTCACTGCCTCCTGCAGGGTGGGCATGTGGGTGTCGTGTTCACGCAGCCCCTTCCTCCACCCCAC
AGACACGCTGGTGGCTGTCCTGGAGCGCGACACACTGGGCATCCGTGAGGTGCGGCTGTTCAATGCCGTTGTCCG
CTGGTCCGAGGCCGAGTGTCAGCGGCAGCAGCTGCAGGTGACGCCAGAGAACAGGCGGAAGGTTCTGGGCAAGGC
CCTGGGCCTCATTCGCTTCCCGCTCATGACCATCGAGGAGTTCGCTGCAGGTAACAGAGCTCGGGCTCAGGGGCT
GGTTTGGGAGGGGAGTGGCACACAGGTGGGCATCTGGGTACCGAGGATAGTGCCCCCGAGTTCACTGCGGAAAGC
CTGGCAGATGCCTGGCATATACAGATAGGAAGAAACCTGGCTTGTGAGGACGCGTCCACAGGGCCATCTGTTAGC
CCCGGCCCGGCTCTGTCCCCACCGTGCACACTGCCAGACCCCGCCTCTCGTGTCTGTCCAGCTGTTTTGGTGGCA
TCTTCCCAGGAGGGAAGGGAGTCCCCGTCTCGCGCCCTTGTGCTACCTGCTGGTGCAGGTACCAGTGTCTGTGAC
GAGCTCAGGAGGGCTCTGACATGGCCGGGGTGGCTGTCATGCGCCCGAGTGGGCCTTGGGGTCCCCTGCTGCAGG
GCCTGGGTTCCAGGGTGACGTGAAGGGGCAGCGCTAACGATGCCTCCTGCCCTCGTGGCTGCTCACTGCCTGACG
CCATCCAGCTCTGGAGCAAAACAGGCCTGGAACTTTCCAGAAGGGGCTGGGACAGAGCCCTGGGGCTGGTGCACA
CTCGCCGTCTGGCCTTCCCCAGGTCCACGCGGCC
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FIGURE 5146

GCTGGCGGGGCCCGGACAGAAG**ATG**GTGCAGAAGAAACCAGCCGAACTTCAGGGTTTCCACCGTTCGTTCAAGGG
GCAGAACCCCTTCGAGCTGGCCTTCTCCCTAGACCAGCCCGACCACGGAGACTCTGACTTTGGCCTGCAGTGCTC
AGCCCGCCCTGACATGCCCGCCAGCCAGCCCATTGACATCCCGGACGCCAAGAAGAGGGGCAAGAAGAAGAAGCG
CGGCCGGGCCACCGACAGCTTCTCGGGCAGGTTTGAAGACGTCTACCAGCTGCAGGAAGATGTGCTGGGGGAGGG
CGCTCATGCCCGAGTGCAGACCTGCATCAACCTGATCACCAGCCAGGAGTACGCCGTCAAGATCATTGAGAAGCA
GCCAGGCCACATTCGGAGCAGGGTTTTCAGGGAGGTGGAGATGCTGTACCAGTGCCAGGGACACAGGAACGTCCT
AGAGCTGATTGAGTTCTTCGAGGAGGAGGACCGCTTCTACCTGGTGTTTGAGAAGATGCGGGGAGGCTCCATCCT
GAGCCACATCCACAAGCGCCGGCACTTCAACGAGCTGGAGGCCAGCGTGGTGGTGCAGGACGTGGCCAGCGCCTT
GGACTTTCTGCATAACAAAGGCATCGCCCACAGGGACCTAAAGCCGGAAAACATCCTCTGTGAGCACCCCAACCA
GGTCTCCCCCGTGAAGATCTGTGACTTCGACCTGGGCAGCGGCATCAAACTCAACGGGGACTGCTCCCCTATCTC
CACCCCGGAGCTGCTCACTCCGTGCGGCTCGGCGGAGTACATGGCCCCGGAGTTAGTGGAGGCCTTCAGCGAGGA
GGCTAGCATCTACGACAAGCGCTGCGACCTGTGGAGCCTGGGCGTCATCTTGTATATCCTACTCAGCGGCTACCC
GCCCTTCGTGGGCCGCTGTGGCAGCGACTGCGGCTGGGACCGCGGCGAGGCCTGCCCTGCCTGCCAGAACATGCT
GTTTGAGAGCATCCAGGAGGGCAAGTACGAGTTCCCCGACAAGGACTGGGCCCACATCTCCTGCGCTGCCAAAGA
CCTCATCTCCAAGCTGCTGGTCCGTGACGCCAAGCAGAGGCTGAGTGCCGCCCAAGTCCTGCAACACCCCTGGGT
TCAGGGGTGCGCCCCGGAGAACACCTTGCCCACTCCCATGGTCCTGCAGAGGTGGGACAGTCACTTCCTCCTCCC
TCCCCACCCCTGTCGCATCCACGTGCGACCTGGAGGACTGGTCAGAACCGTTACTGTGAATGAG**TGA**AGATCCTG
GAGGACCCTGGCCCCAGGCCAGCTCCCATCGCTGGGGGACGGTGAACGGCCATGTGTTAATGTTACGATGTTTTT
AAAAGACAAAAAAAAAAAAAAAACCTCAAAAGTTTTTTTAAAGTGGGGGAAAAACATCCAAGCACTTTAATTCCA
ATGTACCAGGTGAACTGACGGAGCTCAGAAGTTTTCCTTTACACCAACTGTCAATGCCGGAATTTTGTATTCTGT
TTTGTAAAGATTTAATAAAAGTCAAAAAACTTGCAAAAAAAAAAAAAAA

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FIGURE 5147

MVQKKPAELQGFHRSFKGQNPFELAFSLDQPDHGDSDFGLQCSARPDMPASQPIDIPDAKKRGKKKKRGRATDSF
SGRFEDVYQLQEDVLGEGAHARVQTCINLITSQEYAVKIIEKQPGHIRSRVFREVEMLYQCQGHRNVLELIEFFE
EEDRFYLVFEKMRGGSILSHIHKRRHFNELEASVVVQDVASALDFLHNKGIAHRDLKPENILCEHPNQVSPVKIC
DFDLGSGIKLNGDCSPISTPELLTPCGSAEYMAPELVEAFSEEASIYDKRCDLWSLGVILYILLSGYPPFVGRCG
SDCGWDRGEACPACQNMLFESIQEGKYEFPDKDWAHISCAAKDLISKLLVRDAKQRLSAAQVLQHPWVQGCAPEN
TLPTPMVLQRWDSHFLLPPHPCRIHVRPGGLVRTVTVNE

FIGURE 5148A

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CCAAGCCTGAGTGTTAATTTAACTCTATGTTGTCCGCCGTGTAAACATCCGAGGTCATTTGTTGCGTTGAATTAT
CTGACCATCCTTTTTTACTGTGACTCTTCCCATTCTCTTTGGCAAGAAGTCCCCTTCTCGCCCCCAAACCAGCAA
GGGACTCCCCCACCTGGGTCTGTGCCCTGCCCCGCGCTGGGGGCCGAGTCCTTGAATGTGGCTTCAGGGGCTCCT
GTCCTGACGGTTGCGTCCGGGGGGAGGGGAAGGAAGGGCCGCTGTCGCCAAGGTTTTCTCTCCCAGAACCCACAGT
GGGCCGCCGCGATGGCCCTCAAGATGGTGAAGGGCAGCATCGACCGCATGTTCGACAAGAATCTGCAGGACTTGG
TCCGCGGCATCCGTAACCACAAGGAGGACGAGGCAAAATACATATCTCAGTGCATTGATGAGATCAAGCAGGAGC
TGAAGCAGGACAACATAGCGGTGAAGGCGAACGCGGTCTGCAAGCTGACGTATTTACAGATGTTGGGATACGACA
TCAGCTGGGCCGCCTTCAACATCATAGAAGTGATGAGTGCCTCCAAGTTCACCTTCAAGCGAATTGGCTACCTCG
CTGCTTCCCAGAGCTTTCACGAAGGCACCGACGTCATCATGCTGACCACCAATCAGATCCGTAAGGACTTGAGCA
GCCCCAGCCAGTACGACACAGGTGTTGCACTGACGGGTCTGTCCTGCTTCGTCACCCCAGACCTTGCCAGAGACC
TGGCAAATGACATCATGACACTGATGTCACACACCAAGCCCTACATCAGGAAGAAGGCTGTGCTGATCATGTACA
AGGTGTTCCTGAAGTACCCCGAGTCGCTGCGCCCTGCCTTTCCCGGCTGAAGGAGAAGCTGGAGGACCCCGACC
CCGGGGTTCAGTCGGCTGCCGTCAATGTCATCTGCGAGCTGGCCAGACGCAACCCTAAGAACTACCTGTCCCTGG
CCCCGCTCTTTTTCAAGCTGATGACGTCCTCCACCAACAACTGGGTCCTCATCAAGATCATCAAGCTGTTCGGTG
CTCTTACTCCTTTGGAACCGCGGCTGGGCAAGAAGCTGATCGAGCCCCTCACCAATCTCATCCACAGCACGTCTG
CCATGTCTCTCCTCTATGAATGTGTGAACACCGTGATTGCAGTGCTCATCTCGCTGTCCTCCGGCATGCCCAACC
ACAGCGCCAGCATCCAGCTTTGTGTTCAGAAATTAAGGATATTGATCGAGGACTCCGATCAGAACTTGAAGTACC
TGGGGCTGCTGGCAATGTCCAAGATCCTGAAGACCCACCCCAAGTCCGTGCAGTCCCACAAGGACCTCATCCTGC
AGTGCCTGGACGACAAGGACGAGTCCATCCGGCTGCGGGCCCTGGACCTGCTCTATGGGATGGTGTCCAAGAAGA
ACCTGATGGAGATCGTGAAGAAGCTGATGACCCACGTAGACAAGGCAGAGGGTACCACCTACCGTGACGAGCTGC
TCACCAAGATCATTGACATCTGCAGCCAGTCCAACTACCAGTACATCACCAACTTCGAGTGGTACATCAGCATCC
TGGTGGAGCTGACCCGGCTGGAGGGCACACGGCACGGCCACCTCATCGCCGCCCAAATGCTGGACGTGGCCATCC
GCGTGAAGGCCATCCGCAAGTTCGCCGTGTCCCAGATGTCTGCGCTGCTTGACAGTGCACACCTGCTGGCCAGCA
GCACCCAGCGGAACGGGATCTGTGAGGTGCTGTACGCTGCCGCCTGGATCTGCGGGGAGTTCTCAGAGCATCTGC
AGGAACCACACCACACTTTGGAGGCCATGCTGCGGCCCAGAGTCACCACGCTGCCAGGCCACATCCAGGCCGTGT
ATGTGCAGAACGTGGTCAAGCTCTACGCCTCCATCCTGCAGCAGAAGGAGCAGGCCGGGGAGGCAGAGGGCGCTC
AGGCCGTCACCCAGCTCATGGTGGACCGGCTGCCCCAGTTTGTGCAGAGCGCAGACCTGGAGGTGCAGGAGCGGG
CGTCCTGCATCCTGCAGCTGGTCAAGCACATCCAGAAGCTTCAGGCCAAGGACGTGCCTGTGGCAGAGGAGGTCA
GCGCTCTCTTTGCTGGGGAGCTGAACCCAGTGGCCCCCAAGGCCCAGAAGAAGGTTCCAGTCCCCGAAGGCCTGG
ACCTGGACGCCTGGATCAATGAGCCACTCTCGGACAGCGAGTCAGAGGACGAGAGGCCCAGGGCCGTCTTCCACG
AGGAGGAGCAGCGGCGTCCCAAGCACCGGCCGTCGGAGGCGGACGAGGAGGAGCTGGCTCGGCGCCGAGAGGCCC
GGAAGCAGGAGCAGGCCAACAACCCCTTCTACATCAAGAGCTCGCCATCGCCACAGAAGCGGTACCAGGACACCC
CGGGCGTGGAGCACATTCCCGTGGTGCAGATTGACCTCTCCGTCCCCTTGAAGGTTCCAGGGCTGCCTATGTCAG
ATCAGTATGTGAAGCTGGAGGAGGAGCGGCGGCACCGGCAGAAGCTGGAGAAGGACAAGAGGAGGAAAAAGAGGA
AGGAGAAGGAGAAGAAGGGCAAGCGCCGCCACAGCTCGCTGCCCACGGAGAGCGACGAGGACATCGCCCCTGCCC
AGCAGGTGGACATCGTCACAGAGGAGATGCCTGAGAATGCTCTGCCCAGCGACGAGGATGACAAAGACCCCAACG
ACCCCTACAGGGCTCTGGATATTGACCTGGATAAGCCCTTAGCCGACAGCGAGAAACTGCCTATTCAGAAACACA
GAAACACCGAGACCTCAAAATCCCCTGAGAAGGACGTTCCCATGGTAGAAAAGAAGAGCAAGAAACCCAAGAAGA
AAGAGAAAAAACACAAAGAGAAAGAGAGAGACAAGGAGAAGAAGAAGGAGAAGGAGAAGAAGAAATCTCCCAAGC
CTAAGAAGAAGAAACACAGGAAGGAGAAGGAGGAGCGGACCAAAGGCAAGAAGAAGTCCAAGAAGCAGCCTCCAG
GCAGCGAGGAGGCAGCGGGGGAGCCGGTGCAGAATGGCGCGCCAGAGGAGGAGCAGCTCCCGCCTGAGTCCAGCT
ACTCCCTCCTCGCTGAAAATTCCTATGTTAAAATGACCTGTGACATCCGGGGCAGTCTGCAGGAGGACAGCCAGG
TCACTGTGGCCATCGTGCTGGAGAACAGGAGCAGCAGCATCCTCAAGGGCATGGAGCTCAGCGTGCTGGACTCAC
TCAATGCCAGGATGGCCCGGCCGCAGGGCTCCTCCGTCCACGATGGCGTCCCCGTGCCTTTCCAGCTGCCCCCAG
GCGTCTCCAACGAAGCCCAGTATGTGTTCACCATCCAGAGCATCGTCATGGCGCAGAAGCTCAAGGGGACCCTGT
CCTTCATTGCCAAGAATGACGAGGGTGCGACCCACGAGAAGCTGGACTTCAGGCTGCACTTCAGCTGCAGCTCCT
ACTTGATCACCACTCCCTGCTACAGTGACGCCTTTGCTAAGTTGCTGGAGTCTGGGGACTTGAGCATGAGCTCAA
TCAAAGTCGATGGCATTCGGATGTCCTTCCAGAATCTTCTGGCGAAGATCTGTTTTCACCACCATTTTTCCGTTG
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FIGURE 5148B

TGGAGCGAGTGGACTCCTGCGCCTCCATGTACAGCCGCTCCATCCAGGGCCACCATGTCTGCCTCCTGGTGAAAA
AGGGTGAGAACTCTGTCTCAGTCGACGGGAAGTGCAGTGACTCCACGCTACTGAGCAACTTGTTAGAAGAGATGA
AGGCGACGCTGGCCAAGTGT**<u>TGA</u>**GAGCTGCCTGCGAGCCCCGCACCACCCCGCGGAGCACGTACCCAGGGACCGC
AGCCCTGACGTGTCTCGCCTCTCCTCAGTCGTGTGTACTGTACCCAAGCCTGAGTGTTAATTTAACTCTATGTTG
TCCGCCGTGTAGACATCCGAGGTCATTTGTTGCGTTGAATTATCTGACCATCCTTTTTTACTGTGACTCTTCCCA
TTCTCTTTGGCAAGAAGTCCCCTTCTCGCCCCCAAACCAGCAAGGGACTCCCCCACCTGGGTCTGTGCCCTGCCC
CGCGCTGGGGGCCGAGTCCTTGAATGTGGCTTCAGGGGCTCCTGTCCTGGGCCAGGGCCTGATGGGCACCACGTG
AGGGGCACTTGGTGGACAGGGCGGGGCTGACGTGGCCTCCTCTGGGGTCGCCTGCTTTTGACCCAAAGGTCCTGA
CGGTTGCGTCCGGGGGAGGGGAAGGAAGGGCCGCTGTCGCCAAGGTTTTCTCTCCCAGAACCCACAGTGGGAAAG
CGGTCTTGCCAGGCGTTGTCCATTGTCAGTGTGCTCGTGGGCTGGTGACTGGGTCTTGGGATCCCAGGCCACGCG
CCAGCCAGGCTGTGGGCAGGGCGGGGCCAGGGACGCCAAAGAGAGGTTGCAGTCAGAACCGTGGACGGGGTGGGT
TGAGGCCTCTCTGCCACCCGTCTTCCTGGTCAGCAGAAGTGCATCTCGGCTTGGGTTTGGGGTGGTCCGCATCCC
CTGCTTGCCACTATGCGCACCAAGGTTTCCCCACATCCTTCCCAGCACCCTTAGGAAGGCCCAGGCAGGGCCTGG
AAGCAGCGGACCTGGGCTGTTCTGTGTTGAAGGAGTGTGCCCAGTGCCCTTGGGCAGGACCTGTGAGAGCCACCT
CACAGGCAGAGCCCCCACCAGGCAGGGCAAGGAGACTCCGCTCACTCCCCACGGCCAGCGTGGGCACAGGACTGA
CCCTTCTTCAGAGATAATGACATTTTATCTTCTCCTTTTGATGAAAACTGTCACTTTAGCATGTAATCCATTACA
GAATCCCATGCAGTGATTCCAGGATTTGAAATTGTATGATGTGTTACATAAGAATTTATTTGCTATCGACATTCC
CGTATAAAGAGAGAGACATATCACGCTGCTGTCATGATTTTGTGTCAAGATGATCCAATAAAGTTGTAAAACAGG

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FIGURE 5149

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MALKMVKGSIDRMFDKNLQDLVRGIRNHKEDEAKYISQCIDEIKQELKQDNIAVKANAVCKLTYLQMLGYDISWA
AFNIIEVMSASKFTFKRIGYLAASQSFHEGTDVIMLTTNQIRKDLSSPSQYDTGVALTGLSCFVTPDLARDLAND
IMTLMSHTKPYIRKKAVLIMYKVFLKYPESLRPAFPRLKEKLEDPDPGVQSAAVNVICELARRNPKNYLSLAPLF
FKLMTSSTNNWVLIKIIKLFGALTPLEPRLGKKLIEPLTNLIHSTSAMSLLYECVNTVIAVLISLSSGMPNHSAS
IQLCVQKLRILIEDSDQNLKYLGLLAMSKILKTHPKSVQSHKDLILQCLDDKDESIRLRALDLLYGMVSKKNLME
IVKKLMTHVDKAEGTTYRDELLTKIIDICSQSNYQYITNFEWYISILVELTRLEGTRHGHLIAAQMLDVAIRVKA
IRKFAVSQMSALLDSAHLLASSTQRNGICEVLYAAAWICGEFSEHLQEPHHTLEAMLRPRVTTLPGHIQAVYVQN
VVKLYASILQQKEQAGEAEGAQAVTQLMVDRLPQFVQSADLEVQERASCILQLVKHIQKLQAKDVPVAEEVSALF
AGELNPVAPKAQKKVPVPEGLDLDAWINEPLSDSESEDERPRAVFHEEEQRRPKHRPSEADEEELARRREARKQE
QANNPFYIKSSPSPQKRYQDTPGVEHIPVVQIDLSVPLKVPGLPMSDQYVKLEEERRHRQKLEKDKRRKKRKEKE
KKGKRRHSSLPTESDEDIAPAQQVDIVTEEMPENALPSDEDDKDPNDPYRALDIDLDKPLADSEKLPIQKHRNTE
TSKSPEKDVPMVEKKSKKPKKKEKKHKEKERDKEKKKEKEKKKSPKPKKKKHRKEKEERTKGKKKSKKQPPGSEE
AAGEPVQNGAPEEEQLPPESSYSLLAENSYVKMTCDIRGSLQEDSQVTVAIVLENRSSSILKGMELSVLDSLNAR
MARPQGSSVHDGVPVPFQLPPGVSNEAQYVFTIQSIVMAQKLKGTLSFIAKNDEGATHEKLDFRLHFSCSSYLIT
TPCYSDAFAKLLESGDLSMSSIKVDGIRMSFQNLLAKICFHHHFSVVERVDSCASMYSRSIQGHHVCLLVKKGEN
SVSVDGKCSDSTLLSNLLEEMKATLAKC
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FIGURE 5150A

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GCGGCCGTCCACTGGACTCCTGCGCCATATCCTGCAGCAGGTCTACAACCACTCGGTGACCGACCCCGAGAAGCT
CAACAACTACGAGCCCTTCTCCCCCGAGGTGTACGGGGAGACCTCCTTCGACCTGGTGGCCCAGATGATTGATGA
GATCAAGATGACCGACGACGACCTGTTTGTGGACTTGGGGAGCGGTGTGGGCCAGGTCGTGCTCCAGGTTGCTGC
TGCCACCAACTGCAAACATCACTATGGCGTCGAGAAAGCAGACATCCCGGCCAAGTATGCGGAGACCATGGACCG
CGAGTTCAGGAAGTGGATGAAATGGTATGGAAAAAAGCATGCAGAATACACATTGGAGAGAGGCGATTTCCTCTC
AGAAGAGTGGAGGGAGCGAATCGCCAACACGAGTGTTATATTTGTGAATAATTTTGCCTTTGGTCCTGAGGTGGA
TCACCAGCTGAAGGAGCGGTTTGCAAACATGAAGGAAGGTGGCAGAATCGTGTCCTCGAAACCCTTTGCACCTCT
GAACTTCAGAATAAACAGTAGAAACTTGAGTGACATCGGCACCATCATGCGCGTGGTGGAGCTCTCGCCCCTGAA
GGGCTCGGTGTCGTGGACGGGGAAGCCAGTCTCCTACTACCTGCACACTATCGACCGCACCATACTTGAAAACTA
TTTTTCTAGTCTGAAAAACCCAAAACTCAGGGAGGAACAGGAGGCAGCCCGGCGCCGCCAGCAGCGCGAGAGCAA
GAGCAACGCGGCCACGCCCACTAAGGGCCCAGAGGGCAAGGTGGCCGGCCCCGCCGACGCCCCCATGGACTCTGG
TGCTGAGGAAGAGAAGGCGGGAGCAGCCACCGTGAAGAAGCCGTCTCCCTCCAAAGCCCGCAAGAAGAAGCTAAA
CAAGAAGGGGAGGAAGATGGCTGGCCGCAAGCGCGGGCGCCCCAAGAAGATGAACACTGCGAACCCCGAGCGGAA
GCCCAAGAAGAACCAAACTGCACTGGATGCCCTGCACGCTCAGACCGTGTCTCAGACGGCGGCCTCCTCACCCCA
GGATGCCTACAGATCCCCTCACAGCCCGTTCTACCAGCTACCTCCGAGCGTGCAGCGGCACTCCCCCAACCCGCT
GCTGGTGGCGCCCACCCCGCCCGCGCTGCAGAAGCTTCTAGAGTCCTTCAAGATCCAGTACCTGCAGTTCCTGGC
ATACACAAAGACCCCCCAGTACAAGGCCAGCCTGCAGGAGCTGCTGGGCCAGGAGAAGGAGAAGAACGCCCAGCT
CCTGGGTGCGGCTCAGCAGCTCCTCAGCCACTGCCAGGCCCAGAAGGAGGAGATCAGGAGGCTGTTTCAGCAAAA
ATTGGATGAGCTGGGTGTGAAGGCGCTGACCTACAACGACCTGATTCAAGCGCAGAAGGAGATCTCCGCCCATAA
CCAGCAGCTGCGGGAGCAGTCGGAGCAGCTGGAGCAGGACAACCGCGCGCTCCGCGGCCAGAGCTTGCAGCTGCT
CAAGGCTCGCTGCGAGGAGCTGCAGCTGGACTGGGCCACGCTGTCGCTGGAGAAGCTGTTGAAGGAGAAGCAGGC
CCTGAAGAGCCAGATCTCGGAGAAGCAGAGGCACTGCCTGGAGCTGCAGATCAGCATTGTGGAGCTAGAGAAGAG
CCAGCGGCAGCAGGAGCTCCTGCAGCTCAAGTCCTGTGTGCCGCCTGACGACGCCCTGTCCCTGCACCTGCGTGG
GAAGGGCGCCCTGGGCCGCGAGCTGGAGCCTGACGCCAGCCGGCTGCACCTGGAGCTGGACTGCACCAAGTTCTC
GCTGCCTCACTTGAGCAGCATGAGCCCGGAGCTCTCCATGAACGGCCAGGCTGCTGGCTATGAGCTCTGCGGTGT
GCTGAGCCGGCCTTCGTCGAAGCAGAACACGCCCCAGTACCTGGCCTCACCCCTGGACCAGGAGGTGGTGCCCTG
TACCCCTAGCCACGTCGGCCGGCCGCGCCTGGAGAAGCTGTCTGGCCTAGCCGCACCCGACTACACTAGGCTGTC
CCCGGCCAAGATTGTGCTGAGGCGGCACCTGAGCCAGGACCACACGGTGCCCGGCAGGCCGGCTGCCAGTGAGCT
GCATTCGAGAGCTGAGCACACCAAGGAGAACGGCCTTCCCTACCAGAGCCCCAGCGTGCCTGGCAGCATGAAGCT
GAGCCCTCAGGACCCGCGGCCCCTGTCCCTGGGGCCTTGCAGCTTGCTGGAGAGAAGAGCAGTGAGAAGGGCCT
GAGAGAGCGCGCCTACGGCAGCAGCGGGGAGCTCATCACCAGCCTGCCCATCAGCATCCCGCTCAGCACCGTGCA
GCCCAACAAGCTCCCGGTCAGCATTCCCCTGGCCAGCGTGGTGCTGCCCAGCCGCGCCGAGAGGGCGAGGAGCAC
CCCCAGTCCCGTGCTGCAGCCCCGTGACCCCTCGTCCACACTTGAAAAGCAGATTGGTGCTAATGCCCACGGTGC
TGGGAGCAGAAGCCTTGCCCTGGCCCCCGCAGGCTTCTCCTACGCTGGCTCGGTGGCCATCAGCGGGGCCTTGGC
GGGCAGCCCGGCCTCTCTCACACCTGGAGCCGAGCCGGCCACCTTGGATGAGTCCTCCAGCTCTGGGAGCCTTTT
TGCCACCGTGGGGTCCCGCAGCTCCACGCCACAGCACCCCCTGCTGCTGGCACAGCCCCGGAACTCGCTTCCTGC
CTCTCCCGCCCACCAGCTCTCCTCCAGTCCCCGGCTTGGTGGGGCCGCCCAGGGCCCGTTGCCCGAGGCCAGCAA
GGGAGACCTGCCCTCCGATTCCGGCTTCTCAGATCCTGAGAGTGAAGCCAAGAGGAGGATTGTGTTCACCATCAC
CACTGGTGCGGGCAGTGCCAAGCAGTCGCCCTCCAGCAAGCACAGCCCCCTGACCGCCAGCGCCCGTGGGGACTG
TGTGCCGAGCCACGGGCAGGACAGTCGCAGGCGCGGCCGGCGGAAGCGAGCATCTGCGGGGACGCCCAGCTTGAG
CGCAGGCGTGTCCCCCAAGCGCCGAGCCCTGCCGTCCGTCGCTGGCCTTTTCACACAGCCTTCGGGGTCTCCCCT
CAACCTCAACTCCATGGTCAGTAACATCAACCAGCCCCTGGAGATTACAGCCATCTCGTCCCCGGAGACCTCCCT
GAAGAGCTCCCCTGTGCCCTACCAGGACCACGACCAGCCCCCCGTGCTCAAGAAGGAGCGGCCTCTGAGCCAGAC
CAATGGGGCACACTACTCCCCACTCACCTCAGACGAGGAGCCAGGCTCTGAGGACGAGCCCAGCAGTGCTCGAAT
TGAGAGAAAAATTGCAACAATCTCCTTAGAAAGCAAATCTCCCCCGAAAACCTTGGAAAATGGTGGTGGCTTGGC
GGGAAGGAAGCCCGCGCCCGCCGGCGAGCCAGTCAATAGCAGCAAGTGGAAGTCCACCTTCTCGCCCATCTCCGA
CATCGGCCTGGCCAAGTCGGCGGACAGCCCGCTGCAGGCCAGCTCCGCCCTCAGCCAGAACTCCCTGTTCACGTT
CCGGCCCGCCCTGGAGGAGCCCTCTGCCGATGCCAAGCTGGCCGCTCACCCCAGGAAAGGCTTTCCCGGCTCCCT
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FIGURE 5150B

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GTCGGGGGCTGACGGACTCAGCCCGGGCACCAACCCTGCCAACGGCTGCACCTTCGGCGGGGGCCTGGCCGCGGA
CCTGAGTTTACACAGCTTCAGTGATGGTGCTTCTCTTCCCCACAAGGGCCCCGAGGCGGCCGGCCTGAGCTCCCC
GCTGAGCTTCCCCTCGCAGCGCGGCAAGGAGGGCTCGGACGCCAACCCTTTCCTGAGCAAGAGGCAGCTGGACGG
CCTGGCTGGGCTGAAGGGCGAGGGCAGCCGCGGCAAGGAGGCAGGGGAGGGCGGCCTACCGCTGTGCGGGCCCAC .
GGACAAGACCCCACTGCTGAGCGGCAAGGCCGCCAAGGCCCGGGACCGCGAGGTCGACCTCAAGAATGGCCACAA
CCTCTTCATCTCTGCGGCGGCCGTGCCTCCCGGAAGCCTCCTCAGCGGCCCCGGCCTGGCCCCGGCGGCGTCCTC
CGCAGGCGGCGCGGCGTCCTCCGCCCAGACGCACCGGTCCTTCCTGGGCCCCTTCCCGCCGGGACCGCAGTTCGC
GCTCGGCCCCATGTCCCTGCAGGCCAACCTCGGCTCCGTGGCCGGCTCCTCCGTGCTGCAGTCGCTGTTCAGCTC
TGTGCCGGCCGCCGCAGGCCTGGTGCACGTGTCGTCCGCTGCCACCAGACTGACCAACTCGCACGCCATGGGCAG
CTTTTCCGGGGTGGCAGGCGGCACAGTTGGAGGTAACTAGGATTTCTACCTCAACCGCGAGACCTATGCAAGGAC
GGTGTGGACCAACTCGCGCCCGCGGCATGGTGCCCGCCGGCCTGCCGGGCTCCCACCCCTGGACGGCAGAGGCAA
GGACGGACGGGAGCTCCACTGTGAATCGGCGGCACGCGCCGCAGGAGGCTGGGACTGGTCCAGTTTGTACTGTCG
ATAGTTTTAGATAAAGTATTTATCATTTTTTAAAAAGTATAAACAATTCTGACTTATTTTATTCCATCTAAGTGG
TAAAAGGCAACTTATTGAGAAATATAAATATCTATATATGAGAGCTCTATATAAAGACACGTGTCTGCAGGGCGG
GCCCGCCAGCGGATTCGCCACAGCCTGCCCCGGTGCTATCTCGTCCCCAGGCCCGCGCCTGCCTCCACCCGCTTG
GTGCTGACTAGACGCTGACAACGCCGAACCCCGTTCTCGGAAACGCCGCCCGGCCGGCTCCCCCGACGCGCTGCT
CCCGTACCAAAGGCAGGCCCGTCGCCACCACATTCCTCGGAGGCCTCCCCGCGGCCTGAGCCCCTTCCTGAGCGC
CCTGGCGCCTGCCCTGAGCTCTTCACCTTTACCCCGGCACTGTGAACCCCCAGACTGTTCACCCTCCGGGGCGTG
GGTTGCGCCCTTGCATGTGAAGGGGCCTGCGCGGTGACGCAGCTGGCCATGTGCTGCGCGATGGTGCTGTGAGGA
CGGCGCGGGCACGTTGAACAAGTGCATTTACTTTTGTATTTCTCGGCTGTCCATGGCTCGCAGCATGCCCTGCGA
TGCGGGGCAGGCCTGTCGTGGGTCCCTTGGTGTTTCTGTACAGGAGAGAGTCACACTAATGAGTGGCAGTATTTT
ATAGAGATGTGATGAGAATTTATAAATTTCATAGATTTGACAGCTTTTATTTTTAGATGGTATAATGCACAGTGA
AGAGGAAAGAAAAGCGAGGGGAAAAAAACCTTATTTATTCAAACAGTGCACAAAATGGCCCCAGCGTCAGCCCCGA
CCCTAGACCCCTCAGTTGCAGCTCCCAGCAGCCCAGACAGAGCTGCCGGCGCCCCTGCCTGCCCCACATCCCTTC
CTGTCAGGGCCACGCCTGGCACCCATCCCTTGGAGCCTGTGCTGGTTCTCCCAGCTGCTGTGGGTGTGCTGGGGC .
CAGGGTGCACTGCTGAAACCTGGCCTCTCTGGCCCTAGGCCCCAGGGTGACGTCGGCCCCCCACTCTGCAGCCTT
GGCGGGTGCCTGGGACTGGGTGTGGAAGGAGAGGAGCTGAGGCCGGGGTGTAGCAGGCAGGCAGGGCACTCCAG
TGCTTCTGGAGCCCTGAGCAGTCAGGGCCTGGGTTGTCTGAGCAGTGGTGGCTCTGTGCCCTCCCTGGAGGATGG
GATCTGGGA
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FIGURE 5151

MIDEIKMTDDDLFVDLGSGVGQVVLQVAAATNCKHHYGVEKADIPAKYAETMDREFRKWMKWYGKKHAEYTLERG
DFLSEEWRERIANTSVIFVNNFAFGPEVDHQLKERFANMKEGGRIVSSKPFAPLNFRINSRNLSDIGTIMRVVEL
SPLKGSVSWTGKPVSYYLHTIDRTILENYFSSLKNPKLREEQEAARRRQQRESKSNAATPTKGPEGKVAGPADAP
MDSGAEEEKAGAATVKKPSPSKARKKKLNKKGRKMAGRKRGRPKKMNTANPERKPKKNQTALDALHAQTVSQTAA
SSPQDAYRSPHSPFYQLPPSVQRHSPNPLLVAPTPPALQKLLESFKIQYLQFLAYTKTPQYKASLQELLGQEKEK
NAQLLGAAQQLLSHCQAQKEEIRRLFQQKLDELGVKALTYNDLIQAQKEISAHNQQLREQSEQLEQDNRALRGQS
LQLLKARCEELQLDWATLSLEKLLKEKQALKSQISEKQRHCLELQISIVELEKSQRQQELLQLKSCVPPDDALSL
HLRGKGALGRELEPDASRLHLELDCTKFSLPHLSSMSPELSMNGQAAGYELCGVLSRPSSKQNTPQYLASPLDQE
VVPCTPSHVGRPRLEKLSGLAAPDYTRLSPAKIVLRRHLSQDHTVPGRPAASELHSRAEHTKENGLPYQSPSVPG
SMKLSPQDPRPLSPGALQLAGEKSSEKGLRERAYGSSGELITSLPISIPLSTVQPNKLPVSIPLASVVLPSRAER
ARSTPSPVLQPRDPSSTLEKQIGANAHGAGSRSLALAPAGFSYAGSVAISGALAGSPASLTPGAEPATLDESSSS
GSLFATVGSRSSTPQHPLLLAQPRNSLPASPAHQLSSSPRLGGAAQGPLPEASKGDLPSDSGFSDPESEAKRRIV
FTITTGAGSAKQSPSSKHSPLTASARGDCVPSHGQDSRRRGRRKRASAGTPSLSAGVSPKRRALPSVAGLFTQPS
GSPLNLNSMVSNINQPLEITAISSPETSLKSSPVPYQDHDQPPVLKKERPLSQTNGAHYSPLTSDEEPGSEDEPS
SARIERKIATISLESKSPPKTLENGGGLAGRKPAPAGEPVNSSKWKSTFSPISDIGLAKSADSPLQASSALSQNS
LFTFRPALEEPSADAKLAAHPRKGFPGSLSGADGLSPGTNPANGCTFGGGLAADLSLHSFSDGASLPHKGPEAAG
LSSPLSFPSQRGKEGSDANPFLSKRQLDGLAGLKGEGSRGKEAGEGGLPLCGPTDKTPLLSGKAAKARDREVDLK
NGHNLFISAAAVPPGSLLSGPGLAPAASSAGGAASSAQTHRSFLGPFPPGPQFALGPMSLQANLGSVAGSSVLQS
LFSSVPAAAGLVHVSSAATRLTNSHAMGSFSGVAGGTVGGVFNHAVPSASAHPFGARVGRGAACGSATLGPSPLQ
AAASASASSFQAPASVETRPPPPPPPPPPLPPPAHLGRSPAGPPVLHAPPPPNAALPPPPTLLASNPEPALLQS
LASLPPNQAFLPPTSAASLPPANASLSIKLTSLPHKGARPSFTVHHQPLPRLALAQAAPGIPQASATGPSAVWVS
LGMPPPYAAHLSGVKPR

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FIGURE 5152

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GGCACGAGGCTTTCTTTGCCCGCCGTTCGCCAAACGAAGTCGTGGAGGTGGCGAAACGAGGAGGAGATAACGCGG
CCTTGGGCTCTGGTGTCTCCCAGTCTGCTAAAGCCCTAAGGCCATCACCATGGACTTCCAGCATCGCCCCGGGGG
CAAGACCGGGAGCGGGGGCGTGGCCTCCTCCTCCGAGAGCAACCGTGACCGCAGGGAGCGCCTCCGGCAGCTGGC
CCTGGAGACCATCGACATCAACAAGGACCCGTACTTCATGAAGAACCACCTGGGCTCCTATGAATGCAAACTCTG
CCTGACACTTCACAACAATGAGGGGAGCTACCTGGCACATACGCAGGGGAAGAAGCACCAGACCAACCTGGCCCG
GCGAGCAGCCAAGGAGGCCAAGGAGGCCCCTGCCCAGCCCGCGCCTGAGAAGGTCAAGGTGGAGGTGAAGAAGTT
TGTGAAGATCGGCCGCCCGGGCTACAAAGTGACCAAGCAGAGAGACTCGGAGATGGGCCAGCAGAGCCTCCTCTT
CCAGATTGACTACCCTGAGATCGCCGAGGGCATCATGCCACGTCACCGCTTCATGTCTGCGTACGAGCAGAGGAT
CGAGCCTCCGGACCGGCGCTGGCAGTACCTGCTCATGGCCGCCGAGCCCTACGAGACCATTGCCTTCAAGGTGCC
GAGCAGAGAGATCGACAAGGCGGAGGGCAAGTTCTGGACACACTGGAACCGGGAGACCAAGCAGTTCTTCCTCCA
GTTCCACTTTAAGATGGAGAAGCCCCCGGCTCCACCCAGCCTCCCTGCTGGCCCCCCTGGGGTGAAGCGGCCTCC
ACCCCCGCTGATGAACGGTCTGCCCCCTCGGCCACCGCTGCCTGAGTCTTTGCCACCGCCCCCGCCAGGAGGCCT
GCCTCTGCCACCCATGCCCCCCACAGGGCCTGCGCCCTCAGGGCCCCCGGGACCACCCCAGCTACCCCCGCCAGC
TCCAGGGGTCCACCCCCCGGCCCCAGTGGTGCATCCCCCTGCATCTGGGGTCCATCCCCCAGCTCCTGGCGTCCA
CCCCCCAGCTCCTGGCGTCCATCCCCCAGCCCCTGGGGTCCACCCACCAACCTCTGGGGTCCACCCCCCAGCTCC
TGGAGTCCACCCTCCAGCCCCCGGGGTTCACCCACCAGCCCCCGGAGTCCACCCACCAGCCCCTGGGGTTCACCCC
ACCAGCCCCAGGGGTCCATCCTCCCCCATCAGCGGGGGTTCACCCCCAGGCCCCGGGGGTGCACCCAGCAGCCCC
CGCCGTTCACCCTCAGGCCCCAGGGGTGCACCCACCAGCCCCAGGGATGCACCCTCAGGCCCCGGGGGTCCACCC
CCAACCTCCCGGGGTCCATCCGTCGGCTCCTGGGGTCCACCCTCAGCCTCCGGGGAGTTCACCCCTCAAATCCTGG
GGTGCACCCCCCAACTCCCATGCCCCCAATGCTGAGGCCCCCACTTCCCTCCGAAGGCCCAGGGAACATACCTCC
CCCTCCCCCAACCAACTGAGAAGCTGCTCCCTCCCCCAGCAAGCCCAGCGCCAGGTGCTCTTGCCTTTTCCCACT
GAGAGAAGGCTGCTCTTTTGTACTGCCCCCCGCTCATTAAACAGCCTCCCCCAAAAAAAAAAAAAAAAAAAA
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FIGURE 5153

MDFQHRPGGKTGSGGVASSSESNRDRRERLRQLALETIDINKDPYFMKNHLGSYECKLCLTLHNNEGSYLAHTQG
KKHQTNLARRAAKEAKEAPAQPAPEKVKVEVKKFVKIGRPGYKVTKQRDSEMGQQSLLFQIDYPEIAEGIMPRHR
FMSAYEQRIEPPDRRWQYLLMAAEPYETIAFKVPSREIDKAEGKFWTHWNRETKQFFLQFHFKMEKPPAPPSLPA
GPPGVKRPPPPLMNGLPPRPPLPESLPPPPPGGLPLPPMPPTGPAPSGPPGPPQLPPPAPGVHPPAPVVHPPASG
VHPPAPGVHPPAPGVHPPAPGVHPPTSGVHPPAPGVHPPAPGVHPPAPGVHPPAPGVHPPAPGVHPPPSAGVHPQ
APGVHPAAPAVHPQAPGVHPPAPGMHPQAPGVHPQPPGVHPSAPGVHPQPPGVHPSNPGVHPPTPMPPMLRPPLP
SEGPGNIPPPPPTN

5593/6881
FIGURE 5154

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TGCGAACGGCGAGCAGCGGCGGCGGCGCGGAGAGACGCAGCGGAGGTTTTCCTGGTTTCGGACCCCAGCGGCCGG
ATGGTGAAATCCTCCCTGCAGCGGATCCTCAATAGCCACTGCTTCGCCAGAGAGAAGGAAGGGGATAAACCCAGC
GCCACCATCCACGCCAGCCGCACCATGCCGCTCCTTAGCCTGCACAGCCGCGGCGGCAGCAGCAGTGAGAGTTCC
AGGGTCTCCCTCCACTGCTGTAGTAACCCGGGTCCGGGGCCTCGGTGGTGCTCCTGATGCCCCTCACCCACCCCT
GAAGATCCCAGGTGGGCGAGGGAATAGTCAGAGGGATCACAATCTTTCAGCTAACTTATTCTACTCCGATGATCG
GCTGAATGTAACAGAGGAACTAACGTCCAACGACAAGACGAGGATTCTCAACGTCCAGTCCAGGCTCACAGACGC
CAAACGCATTAACTGGCGAACAGTGCTGAGTGGCGGCAGCCTCTACATCGAGATCCCGGGCGGCGCGCTGCCCGA
GGGGAGCAAGGACAGCTTTGCAGTTCTCCTGGAGTTCGCTGAGGAGCAGCTGCGAGCCGACCATGTCTTCATTTG
CTTCCACAAGAACCGCGAGGACAGAGCCGCCTTGCTCCGAACCTTCAGCTTTTTGGGCTTTGAGATTGTGAGACC
GGGGCATCCCCTTGTCCCCAAGAGACCCGACGCTTGCTTCATGGCCTACACGTTCGAGAGAGAGTCTTCGGGAGA
GGAGGAGGAGTAGGGCCGCCTCGGGGCTGGGCATCCGGCCCCTGGGGCCACCCCTTGTCAGCCGGGTGGGTAGGA
ACCGTAGACTCGCTCATCTCGCCTGGGTTTGTCCGCATGTTGTAATCGTGCAAATAAACGCTCACTCCGAATTAG
CGGTGTATTTCTTGAAGTTTAATATTGTGTTTGTGATACTGAAGTATTTGCTTTAATTCTAAATAAAAATTTATA
TTTTACTTTTT
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FIGURE 5155

ACCATTCTGATGTTGGAGCGGCCTCGGTCCGGTTGACTTTGCGGAC**ATG**GAGGGCGGCTTCGGCTCCGATTTCGG
GGGCTCCGGCAGCGGGAAGCTGGACCCAGGGCTCATAATGGAGCAGGTGAAAGTGCAGATCGCCGTGGCCAACGC
GCAGGAGCTGCTGCAGAGGATGACGGACAAGTGTTTCCGGAAGTGTATAGGGAAACCTGGGGGCTCCCTGGACAA
CTCCGAGCAGAAGTGCATCGCCATGTGCATGGACCGCTACATGGACGCCTGGAACACCGTGTCTCGCGCCTACAA
CTCGCGGCTGCAGCGGGAACGAGCCAACATG**TGA**CCGGCGAGCGCGGGCCACCCCACCCTGTTCATTTCCATAAA
CGTGCTTTGAGAGGCGGGGTCCGCATGTACGTACTGCCTGCCCGGGGCTTAGGAGGGTGGCACCGGTGCTGGGAC
ACACGGGACTGTGTCCTCGCCACCCCCCGCCCTGCCCCCTGCCAGCCAGTGCAGCTTGGATCTCGGGGGTGTGGG
GCCCTGTGCCTTCCTGAAGTGCTGGCAGCCCAGTGGCACCTCCTTCAGGCCTTTGGGGTATTCCCCTAGTGTGCC
CAAGTCAGCCTCATATTCTGGGCGGACAGCTTGTCTGGACTTCGGAGTTGGGGGTGGTCAGACACCACAGGAGCT
GTCACCTCCTGCGGATGGGCAAATAAATTGGTGGAGGACGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAA

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FIGURE 5156

MEGGFGSDFGGSGSGKLDPGLIMEQVKVQIAVANAQELLQRMTDKCFRKCIGKPGGSLDNSEQKCIAMCMDRYMD
AWNTVSRAYNSRLQRERANM

5596/6881
FIGURE 5157

GGCACGAGGCCTCGTGCCGTTTTAATGGATATTTATTTTTTTACATTGGTCAGTACACAGGTCAGGAGCTCACGC
CAGGGCCTTGAGGACAGGCTGACCCTCCTCCCCGGGGTGGCGTGGGGCTGGGGCACCCTCCGACGGCAGAGCCTC
CTTCAGAAAGTGCAGCTCAAGTCTTAAAGACACCAAAACTGAGCCATGGGCACGCGCCGTCTCCGGGCC**ATG**GCG
TTCACTGCAGGGCGGGGGCGGCACCGCTCCCCTGTGACTGCATCCCGCCTCCCTGGGGACCTGCCTGTGGCAGGA
AGGAATGGGGGGGCCCCAGCCCCAGGCCGGGAAGGAGCCAGCGGCCGACAAAGCAGAAACACCCGCTGCTCCACGT
AGCCCCTGCTCGCTGTCCTTGCTCTCAGAAGTCCCGGTCCCATGTAGA**TAG**AGGGGGGCGCATCTTACCAAAGCA
TTTCCTCCTGGAGGCTACGCCGCTGTGCTCCCAGTCAGGCGGCTGGTAGGGAGCTTTGCCTGCCCCGGGGATACC
CTCTGCCAGCCGCTGGAAGTGGGAATGCTGGCGACAGACTGTGTCCTCTTTCCCACCTTCATAGCAGGAATCACC
CGGACCCGACTGGCTGGGCTTCGTGCTAGCGAGGGTTCTGGGGGTGGGTCTTGGTGATCTTGTCCTATGGGGAGT
CTGCAGTGGTCTCAGCCACATCCTATGTATTTTGGCTCTGGAGGAGCAAAGCTGTATCCTGGAGTTGGTCTGTGA
TTTGCCGACAGCCTTGCAGGCTGGGCTCAGGGACAAAGTCCCCCCCAAAACCCGCAGGTCCTCATGTCCAGACGC
TGCCCAGTCCTGTCCTGAAAACAGCACGCCCCAGGCCCACAGAACCCCCCACCCTACATTTGCCTTGGGTGGAGC
TGGGGGTGGTCCTAGGACTGCGGGTGCCCTTAGCTGAAGGGGGTGGGGAGAAGCGTGGACTGGGCAGCCTGTGGG
TAATTGGAGGTTCATTGAGAATTGAGTCTTTGGAAACACTAAGAAAATCAAATTTTTAAAAGTTATTTATGGCCT
GGGAAACAATTTGCATTTGTCCCCAAATACGCTTAGCTGTGTGCCGCTTAGAACGATGCGAAACCATCCCTCTGT
GTAAGCCCGTGCCGTGTGACTCGAAGCCTAGCGCCCTCCCTGCGAAGCATCAGACGCCACCCAGCCCTGGGGGGA
GGCCCACGCCTGCTGGACCAACGCGGGTTCTGGGGTGCACAGCGCCAGGTTAACGCTGAAGCCTGCCCCGCTGAG
CCCAGGAGCCGGGAGGCCTGCGGGCTGACCCAGAATCCGATCATGCACCTGTCCTCATGCCAGCGGCTTTGGCTG
GGGTTGGTCTGAAGCCTGCACGCGGCAGTTCTTTGTTAAAGATCTGAGGGACTCCTCAGTCCTGGGGCGTCGCCG
CCTGCAGCCTCTTCCAAGCCCTGCGTCCAGCGAGCGTCACAGCACAACCTGCAAAAACGGAGCTGGGCTGCAGCT
GGGGCTGGCATGGACTTTCATTTCAGAGATTCGGTTTTTAAGAAGATGCATGCCTAATGTGTTCTTTTTTTTTC
CAATGATTTGTAATATACATTTTATGACTGGAAACTTTTTTGTACAACACTCCAATAAACATTTTGATTTTAAAA
AAAAAAAAAAAAAAA

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FIGURE 5158

MAFTAGRGRHRSPVTASRLPGDLPVAGRNGGPQPQAGKEPAADKAETPAAPRSPCSLSLLSEVPVPCR

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FIGURE 5159

CGTCGGACTACCGTTGGTTTCCGCAACTTCCTGGATTATCCTCGCCAAGGACTTTGCAATATATTTTTCCGCCTT
TTCTGGAAGGATTTCGCTGCTTCCCGAAGGTCTTGGACGAGCGCTCTAGCTCTGTGGGAAGGTTTTGGGCTCTCT
GGCTCGGATTTTGCAATTTCTCCCTGGGGACTGCCGTGGAGCCGCATCCACTGTGGATTATAATTGCAACATGAC
GCTGGAAGAGCTCGTGGCGTGCGACAACGCGGCGCAGAAGATGCAGACGGTGACCGCCGCGGTGGAGGAGCTTTT
GGTGGCCGCTCAGCGCCAGGATCGCCTCACAGTGGGGGTGTACGAGTCGGCCAAGTTGATGAATGTGGACCCAGA
CAGCGTGGTCCTCTGCCTCTTGGCCATTGACGAGGAGGAGGAGGATGACATCGCCCTGCAAATCCACTTCACGCT
CATCCAGTCCTTCTGCTGTGACAACGACATCAACATCGTGCGGGTGTCGGGCATGCAGCGCCTGGCGCAGCTCCT
GGGAGAGCCGGCCGAGACCCAGGGCACCACCGAGGCCCGAGACCTGCATTGTCTCCTGGTCACGAACCCTCACAC
GGACGCCTGGAAGAGCCACGGCTTGGTGGAGGTGGCCAGCTACTGCGAAGAAAGCCGGGGCAACAACCAGTGGGT
CCCCTACATCTCTCTTCAGGAACGCTGAGGCCCTTCCCAGCAGCAGAATCTGTTGAGTTGCTGCCACAAACAAAA
AATACAATAAATATTTGAACCCCCTCCCCCCCAGCACAACCCCCCCAAAACAACCCAACCCACGAGGACCATCGG
GGGCAGAGTCGTTGGAGACTGAAGAGGAAGAGGAGGAGGAGAAGGGGAGTGAGCGGCCGCCCCCAGGGCGGAGAT
CCAGGAGCTGGCGGCCGCCGATCCGATGGAGAAGGGGGGACCCAGGCCAGCAGGAGACAGGACCCCCGAAGCTGA
GGCCTTGGGATGGAGCAGAAGCCGGAGTGGCGGGGCACGCTGCCGCCTTCCCCATCACGGAGGGTCCAGACTGTC
CACTCGGGGGTGGAGTGAGACTGACTGCAAGCCCCACCCTCCTTGAGACTGGAGCTGGCGTCTGCATACGAGAGA
CTTGGTTGAACTTGGTTGGTCCTTGTCTGCACCCTCGACAAGACCACACTTTGGGACTTGGGAGCTGGGGCTGAA
GTTGCTCTGTACCCATGAACTCCCAGTTTGCGAATTATAGAGACAATCTATTTTGTTACTTGCACTTGTTATTCG
AACCACTGAGAGCGAGATGGGAAGCATAGATATCTATATTTTTATTTCTACTATGAGGGCCTTGTAATAAATTTC
TAAAGCCTC

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FIGURE 5160

GGGCAGGGGCGTGGGCGGGGCGTGGACCAGCCGCGCCGAGCGGGGCCTCTCCGGGCCGCGTCTGTGGGGTCGAGA
CTGCGCGGCCGTTGGGCGTGCAGCGGCGCCAGTCGGCGGACGAGGGGCCCCCGGGAGTTGCTGGACTGAGACATG
AGCCTCCAACTGTGTGGTTGGGCTCGGTAGCACATCGTGGGACTTGGGTGTGCGCCCACAGATGGTTTGGCCCTG
CAGTGACCAGAGCAGCCCAAGCCGCCACCATGGTGAAATTGCTAGTGGCCAAAATCCTGTGCATGGTGGGCGTGT
TCTTCTTCATGCTGCTCGGCTCCCTGCTCCCCGTGAAGATCATCGAGACAGATTTTGAGAAGGCCCATCGCTCGA
AAAAGATCCTCTCTCTCTGCAACACCTTTGGAGGAGGGGTGTTTCTGGCCACGTGCTTCAACGCTCTGCTGCCCG
CTGTGAGGGAAAAGCTCCAGAAGGTCCTGAGCCTCGGCCACATCAGCACCGACTACCCGCTGGCCGAAACCATCC
TCCTGCTGGGCTTCTTCATGACCGTCTTCCTGGAGCAGCTGATCCTGACCTTCCGCAAGGAGAAGCCGTCCTTCA
TCGACCTGGAGACCTTCAACGCCGGATCGGACGTGGGCAGCGACTCGGAGTATGAGAGCCCCTTCATGGGGGGCG
CGCGGGGCCACGCGCTGTACGTGGAGCCCCACGGCCACGGCCCCAGCCTGAGCGTGCAGGGCCTCTCGCGCGCCA
GCCCCGTGCGCCTGCTCAGCCTGGCCTTCGCGCTGTCGGCCCACTCGGTCTTTGAGGGCCTGGCCCTGGGCCTGC
AGGAGGAGGGGGGAGAAAGTGGTGAGCCTGTTCGTGGGGGTGGCCGTCCACGAGACACTGGTGGCCGTGGCCCTGG
GCATCAGCATGGCCCGGAGTGCCATGCCCCTGCGGGACGCGGCCAAGCTGGCGGTCACCGTAAGCGCCATGATCC
CCCTGGGCATCGGCCTGGGCCTGGGCATTGAGAGCGCCCAGGGCGTGCCGGGCAGCGTGGCGTCCGTGCTGCTGC
AGGGCCTGGCGGGCGGCACCTTCCTCTTCATCACCTTCCTGGAGATCCTGGCCAAGGAGCTGGAGGAGAAGAGTG
ACCGTCTGCTCAAGGTCCTCTTCCTGGTGCTGGGCTACACCGTCCTGGCCGGGATGGTCTTCCTCAAGTGGTGAG
CGGCCTCGCCATTGTCCCTGCCGCCGGAGCCCGCCGGGAGCCCCGGGCCGGACACAGGCCGCGTCCCCCGGCCGC
GCGTCCCCCAAGAGCGAGCACTGTGGCCCTGGGCCACCACCTGTGCACAAGGGGCCTCCCGGGACCAGGCTGTGC
CCCCGATCCTACACCCTGAGCCTCAGAGCACTGCTACTTTTTAAAATACTTCTTTCTCTTAAAAGTCTTTACC

FIGURE 5161

GGGCGTCGCGCCCTGGGGCCGGGGCCGGGCGGCACCGCGGTGCGCAAGCGCAACCGTCGGTGGGTCGGGGATCGG
TCGCCTGAGAGGTATCACCTCTTCTGGGCTCAAGATGGACAACAAGAAGCGCCTGGCCTACGCCATCATCCAGTT
CCTGCATGACCAGCTCCGGCACGGGGGCCTCTCGTCCGATGCTCAGGAGAGCTTGGAAGTCGCCATCCAGTGCCT
GGAGACTGCGTTTGGGGTGACGGTAGAAGACAGTGACCTTGCGCTCCCTCAGACTCTGCCGGAGATATTTGAAGC
GGCTGCCACGGGCAAGGAGATGCCGCAGGACCTGAGGAGCCCCGCGCGAACCCCGCCTTCCGAGGAGGACTCAGC
AGAGGCAGAGCGCCTCAAAACCGAAGGAAACGAGCAGATGAAAGTGGAAAACTTTGAAGCTGCCGTGCATTTCTA
CGGAAAAGCCATCGAGCTCAACCCAGCCAACGCCGTCTATTTCTGCAACAGAGCCGCAGCCTACAGCAAACTCGG
CAACTACGCAGGCGCGGTGCAGGACTGTGAGCGGGCCATCTGCATTGACCCGGCCTACAGCAAGGCCTACGGCAG
GATGGGCCTGGCGCTCTCCAGCCTCAACAAGCACGTGGAGGCCGTGGCTTACTACAAGAAGGCTCTGGAGCTGGA
CCCCGACAACGAGACATACAAGTCCAACCTCAAGATAGCGGAGCTGAAGCTGCGGGAGGCCCCCAGCCCCACGGG
AGGCGTGGGCAGCTTCGACATCGCCGGCCTGCTGAACAACCCTGGCTTCATGAGCATGGCTTCGAACCTAATGAA
CAATCCCCAGATTCAGCAGCTCATGTCCGGCATGATTTCGGGTGGCAACAACCCCTTGGGAACTCCCGGCACCAG
CCCCTCGCAGAACGACCTGGCCAGCCTCATCCAGGCGGGCCAGCAGTTTGCCCAGCAGATGCAGCAGCAGAACCC
AGAGTTGATAGAGCAGCTCAGGAGCCAGATCCGGAGTCGGACGCCCAGCGCCAGCAACGACGACCAGCAGGAGTG
ACGCTGCCTGCTCCCGGTGTGACCGCGTCCTTCCCTGGCCGACCCGAAGGAAGCCTTCTGGTTGTCTGCCACTTC
CTCCTGTTGGACTGCCTGAGAGAGGGGAAGAGAGAGACCTCGGACCTGCATGTCAAGATGGATTTTCCCCTTTTA
TCTCTGCCCTCCTCCACTCCCTTTTTGTAACTCCCTTACAGCCCCCAGACCCTTCTTGAAACGAGAGCCAGCAAG
CTGAGCACAGACCAGCAGCGACCTCCCTTCCAGCCCCCAGAAAGCTCGGTCACTTGAGTGTTTTCTAGAATCCTG
GGGTGCTCCCGGGCCGCTCTCAGAGAAGTGGCAGGTTTCACGTTCAGCCGTGTGGCGGATCGTGTGGCTTCCAAA
GCCTTTTACAGCCCCCGCCCCCCATCCCGTGGTCTGTCTGCAGGAACTCTCCCGTCTGTGAGAAGCCTCTTTCCG
AGTCGACCTCCCGGCCACCCCGGCCCTGTGCCTGCTCGGAAGAGCTCACTGCCAGCTGCGGCCTGGGCACCGCGG
GCCATGTGTGTTTGCATGAGGAACTCTTTAGTGGCAGACACCTAAGAGACGGCTGCGGTCACCCCACGCCTCCGC
GGCTCAGGAGCCGTCCTGGGTGCATAGGACCAGTTTCTGTGACTTTTCTCCAGTTGGGCATGTTGACAGACATGT
TTCCCCTCCTCCCACCCTCATTTCTGGTCCTCGCGACTGAGAGCCAGGGGCGACATCATGACCTTCTGTCCCGG
CCGCCTTAGCCCCGGGCACAGGGAAGGCAGCTGGGCCGTTTCTGTCTGTGTCCCATCCTGCTGTCCTTCTGTCCT
GGATGTTTCATGGGCCCGGGGCCCCCCAGGGAAGCTTACCCCTCCTGTGCTGGGTGGAGGCCACGGGACACCTCA
GGTGCCACCCACCTTGGCCCTAAAACAGCCACCAGGAAAGCAGCCGGAGAGCCGGACAGCAGGCAGCCTGTCTGG
GTTCCTGAGGCCTGGGGGTGGCAGACGAGCCCACGGCGCCGTGGTCCCAGCAGCAGGGTTGTCAGTCGGAGCATC
CTGGGGCTCCCTGGCTCCTGGCCGTCTGTGAGGTAGGCGCAGTACCGTGTATCGTAGGTAGCAGTAGGAACGGGG
GCCGCCGCGGCCCTGCAGCCGCTCATGGCGGTGAGGTGTGTGCCAAGCCCACCCGGGGTGCAGGGCGTGACGTGT
GGGGAATAAATAGGCGTTGTGACCTCTAAAAAAAAAAAAAAAAAA

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FIGURE 5162

MDNKKRLAYAIIQFLHDQLRHGGLSSDAQESLEVAIQCLETAFGVTVEDSDLALPQTLPEIFEAAATGKEMPQDL
RSPARTPPSEEDSAEAERLKTEGNEQMKVENFEAAVHFYGKAIELNPANAVYFCNRAAAYSKLGNYAGAVQDCER
AICIDPAYSKAYGRMGLALSSLNKHVEAVAYYKKALELDPDNETYKSNLKIAELKLREAPSPTGGVGSFDIAGLL
NNPGFMSMASNLMNNPQIQQLMSGMISGGNNPLGTPGTSPSQNDLASLIQAGQQFAQQMQQQNPELIEQLRSQIR
SRTPSASNDDQQE

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FIGURE 5163

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GTGGCGGCGGTTGGGCCGAGGCAGGCGGCCTCAGTGGCCGAGGTGGCTGGACGCGTAGCAGGTGGAAGGAGGGAG
GGAGCCGCAGGCGCAGACCCACCCGCCATGAAGCCCCCCGCAGCCTGTGCAGGAGACATGGCGGACGCAGCATCT
CCGTGCTCTGTGGTAAACGACCTGCGGTGGGACCTGAGTGCCCAGCAGATAGAGGAGCGCACCAGGGAGCTCATC
GAGCAGACCAAGCGCGTGTATGACCAGGTTGGCACCCAGGAGTTTGAGGACGTGTCCTACGAGAGCACGCTCAAG
GCGCTGGCCGATGTGGAGGTCACCTACACAGTTCAGAGGAATATCCTTGACTTCCCCCAGCATGTTTCCCCCTCC
AAGGACATCCGGACAGCCAGCACAGAGGCCGACAAGAAGCTCTCTGAGTTCGACGTGGAGATGAGCATGAGGGAG
GACGTGTACCAGAGGATCGTGTGGCTCCAGGAGAAAGTTCAGAAGGACTCACTGAGGCCCGAGGCTGCGCGGTAC
CTGGAGCGGCTAATCAAGCTGGGCCGGAGAAATGGGCTTCACCTCCCCAGAGAGACTCAGGAAAACATCAAACGC
ATCAAGAAGAAGCTGAGCCTTCTGTGCATCGACTTCAACAAGAACCTGAACGAGGACACGACCTTCCTGCCCTTC
ACGCTCCAGGAGCTAGGAGGGCTCCCCGAGGACTTTCTGAACTCCCTGGAGAAGATGGAGGACGGCAAGTTGAAG
GTCACCCTCAAGTACCCCCATTACTTCCCCCTCCTGAAGAAATGCCACGTGCCTGAGACCAGGAGGAAAGTGGAG
GAGGCCTTCAACTGCCGGTGCAAGGAGGAGAACTGCGCTATCCTCAAGGAGCTGGTGACGCTGCGGGCCCAGAAG
TCCCGCCTGCTGGGGTTCCACACGCACGCCGACTATGTCCTGGAGATGAACATGGCCAAGACCAGCCAGACCGTG
GCCACCTTCCTAGATGAGCTGGCGCAGAAGCTGAAGCCCCTGGGGGAGCAGGAGCGTGCGGTGATTCTGGAGCTG
AAGCGTGCGGAGTGCGAGCGCCGGGGCCTGCCCTTCGACGGCCGCATCCGTGCCTGGGACATGCGCTACTACATG
AACCAGGTGGAGGAGACGCGCTACTGCGTGGACCAGAACCTGCTCAAGGAGTACTTCCCCGTGCAGGTGGTCACG
CACGGGCTGCTGGGCATCTACCAGGAGCTCCTGGGGCTGGCCTTCCACCACGAGGAGGGCGCCAGTGCCTGGCAT
GAGGACGTGCGGCTCTACACCGCGAGGGACGCGGCCTCGGGGGAGGTGGTCGGCAAGTTCTACCTGGACCTGTAC
CCGCGGGAAGGAAAGTACGGGCACGCGGCCTGCTTTGGCCTGCAGCCCGGCTGCCTGCGGCAGGATGGGAGCCGC
CAGATCGCCATCGCGGCCATGGTGGCCAACTTCACCAAGCCCACAGCCGACGCGCCCTCGCTGCTGCAGCATGAC
GAGGTGGAGACCTACTTCCATGAGTTTGGCCACGTGATGCACCAGCTCTGCTCCCAGGCGGAGTTCGCCATGTTC
AGCGGGACCCACGTGGAGCGGGACTTTGTGGAGGCGCCGTCGCAGATGCTGGAGAACTGGGTGTGGGAGCAGGAG
CCGCTGCTGCGGATGTCGCGGCACTACCGCACAGGCAGCGCCGTGCCCCGGGAGCTCCTGGAGAAGCTCATTGAG
TCCCGGCAGGCCAACACAGGCCTCTTCAACCTGCGCCAGATCGTCCTCGCCAAGGTGGACCAGGCCCTGCACACG
CAGACGGACGCAGACCCCGCCGAGGAGTATGCGCGGCTCTGCCAGGAGATCCTCGGGGTCCCGGCCACGCCAGGA
ACCAACATGCCTGCAACCTTCGGCCATCTGGCAGGTGGCTACGACGCCCAGTACTACGGGTACCTGTGGAGCGAG
GTGTATTCCATGGACATGTTCCACACGCGCTTCAAGCAGGAGGGTGTCCTGAACAGCAAGGTTGGCATGGATTAC
AGAAGCTGCATCCTGAGACCCGGCGGTTCCGAGGATGCCAGCGCCATGCTGAGGCGCTTCCTGGGCCGTGACCCC
AAGCAGGACGCCTTCCTCCTGAGCAAGGGGCTGCAGGTCGGGGGCTGCGAGCCCGAGCCGCAGGTCTGCTGAGGC
CTGGCACTGCGACTGCCCAGTCTGGCCTGCGCTCCCGCCGCCCTGGTGCCTTAGCCCCCGGCACAGGATGGGGCA
GGCTCTGGCACAGTGCCTGGGACTGGCAGGGTGGCTGAGCGGCTGTCTTGCCTCTTGTCATTGTCTGTCCCCACC
CGGTCGTGGCCCACCCGGCTAGAGACGGCGTCCTCAAGGCATCTGGAGGGCTTTCGTGGCTGCCAGGGCCTGGTC
TTTGTTGCACTAACACGTCTCCTCTCTGGGAAACGTCCCTTGTCAGGAGACGGCTCTTCTTTGAAATGAGGTCAT
TAAAAGGAAAC
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FIGURE 5164

MKPPAACAGDMADAASPCSVVNDLRWDLSAQQIEERTRELIEQTKRVYDQVGTQEFEDVSYESTLKALADVEVTY
TVQRNILDFPQHVSPSKDIRTASTEADKKLSEFDVEMSMREDVYQRIVWLQEKVQKDSLRPEAARYLERLIKLGR
RNGLHLPRETQENIKRIKKKLSLLCIDFNKNLNEDTTFLPFTLQELGGLPEDFLNSLEKMEDGKLKVTLKYPHYF
PLLKKCHVPETRRKVEEAFNCRCKEENCAILKELVTLRAQKSRLLGFHTHADYVLEMNMAKTSQTVATFLDELAQ
KLKPLGEQERAVILELKRAECERRGLPFDGRIRAWDMRYYMNQVEETRYCVDQNLLKEYFPVQVVTHGLLGIYQE
LLGLAFHHEEGASAWHEDVRLYTARDAASGEVVGKFYLDLYPREGKYGHAACFGLQPGCLRQDGSRQIAIAAMVA
NFTKPTADAPSLLQHDEVETYFHEFGHVMHQLCSQAEFAMFSGTHVERDFVEAPSQMLENWVWEQEPLLRMSRHY
RTGSAVPRELLEKLIESRQANTGLFNLRQIVLAKVDQALHTQTDADPAEEYARLCQEILGVPATPGTNMPATFGH
LAGGYDAQYYGYLWSEVYSMDMFHTRFKQEGVLNSKVGMDYRSCILRPGGSEDASAMLRRFLGRDPKQDAFLLSK
GLQVGGCEPEPQVC

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FIGURE 5165

CTGGGGGGCTTTTCGGATCGGCAGGATGTACCCCCAGGGAAGGCACCCGACCCCGCTCCAGTCCGGCCAGCCCTT
CAAGTTCTCGATCTTGGAGATCTGCGACCGCATCAAAGAAGAATTCCAGTTTCTTCAGGCTCAATACCACAGCCT
CAAGCTAGAATGTGAGAAGCTGGCCAGCGAGAAGACGGAAATGCAGCGACATTATGTCATGTATTATGAGATGTC
GTACGGGCTCAACATTGAAATGCATAAGCAGGCGGAGATTGTGAAGCGTCTGAGCGGTATCTGCGCTCAGATTAT
CCCCTTCCTGACCCAGGAGCATCAGCAGCAGGTGCTCCAGGCCGTAGAACGCGCCAAGCAGGTCACCGTGGGGGA
GCTGAACAGCCTCATCGGGCAGCAGCTCCAGCCGCTGTCCCACCACGCACCCCCTGTGCCCCTCACCCCCCGCCC
AGCCGGGCTGGTGGGCGGCAGTGCTACGGGGCTGCTTGCTCTGTCTGGAGCCCTGGCTGCCCAGGCTCAGCTGGC
GGCGGCTGTCAAGGAGGACCGTGCGGGCGTGGAGGCCGAGGGGTCCAGAGTGGAGAGAGCCCCGAGCAGGAGTGC
ATCTCCCTCGCCCCCTGAGAGTCTCGTGGAGGAGGAGCGACCGAGTGGCCCTGGTGGTGGCGGGAAGCAGAGAGC
AGATGAGAAGGAGCCATCAGGACCTTATGAAAGCGACGAAGACAAGAGTGATTACAATCTGGTGGTGGACGAGGA
CCAACCCTCAGAGCCCCCCAGCCCGGCTACCACCCCCTGCGGAAAGGTACCCATCTGCATTCCTGCCCGTCGGGA
CCTGGTGGACAGTCCAGCCTCCTTGGCCTCTAGCCTTGGCTCACCGCTGCCTAGAGCCAAGGAGCTCATCCTGAA
TGACCTTCCCGCCAGCACTCCTGCCTCCAAATCCTGTGACTCCTCCCCGCCCCAGGACGCTTCCACCCCCGGGCC
CAGCTCGGCCAGTCACCTCTGCCAGCTTGCTGCCAAGCCAGCACCTTCCACGGACAGCGTCGCCCTGAGGAGCCC
CCTGACTCTGTCCAGTCCCTTCACCACGTCCTTCAGCCTGGGCTCCCACAGCACTCTCAACGGAGACCTCTCCGT
GCCCAGCTCCTACGTCAGCCTCCACCTGTCCCCCCAGGTCAGCAGCTCTGTGGTGTACGGACGCTCCCCCGTGAT
GGCATTTGAGTCTCATCCCCATCTCCGAGGGTCATCCGTCTCTTCCTCCCTACCCAGCATCCCTGGGGGAAAGCC
GGCCTACTCCTTCCACGTGTCTGCGGACGGGCAGATGCAGCCGGTTCCCTTCCCCTCGGATGCACTGGTAGGCGC
GGGCATCCCGCGGCACGCCCGGCAGCTGCACACGCTGGCCCATGGCGAGGTGGTCTGCGCGGTCACCATCAGCGG
CTCCACACAGCATGTGTACACGGGCGGCAAGGGCTGTGTGAAGGTGTGGGACGTGGGCCAGCCTGGGGCCAAGAC
GCCCGTGGCCCAGCTCGACTGCCTGAACCGAGACAACTACATTCGTTCCTGCAAGTTGCTGCCGGATGGCCGGAG
TCTGATCGTGGGCGGTGAGGCCAGCACCTTGTCCATTTGGGACCTGGCGGCGCCCACCCCCCGTATCAAGGCCGA
GCTGACTTCCTCAGCCCCAGCCTGCTACGCCCTGGCCGTCAGCCCCGACGCCAAGGTTTGCTTCTCCTGCTGCAG
CGATGGCAACATTGTGGTCTGGGACCTGCAGAATCAGACTATGGTCAGGCAGTTCCAGGGCCACACGGACGGCGC
CAGCTGCATTGATATTTCCGATTACGGCACTCGGCTCTGGACAGGGGGCCTGGACAACACGGTGCGCTGCTGGGA
CCTGCGGGAGGGCCGCCAGCTGCAGCAGCATGACTTCAGCTCCCAGATTTTCTCCCTGGGCCACTGCCCTAACCA
GGACTGGCTGGCGGTCGGAATGGAGAGTAGCAACGTGGAGATCCTGCACGTCCGCAAGCCGGAGAAATACCAGCT
GCACCTCCACGAGAGCTGCGTGCTGTCCCTGAAGTTTGCCTCCTGCGGACGGTGGTTTGTGAGCACCGGGAAGGA
CAACCTGCTCAACGCCTGGAGGACGCCGTACGGGGCCAGCATTTTCCAGTCCAAGGAGTCGTCCTCAGTCCTGAG
TTGTGACATCTCCAGAAATAACAAATACATCGTGACAGGCTCGGGGGACAAGAAGGCCACCGTGTATGAGGTGGT
CTACTGAGACATGACCCCCC

5605/6881
FIGURE 5166

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GCCGCACTGAGCCACAGCCCCGGGGGCCGCCTCCCGGGGCCCCTTGAGGCACTGAGGCACCGAGACTGGTTCTCC
CCGAGAGACTCGGAAGGTGGGGAACGAGGGGACTGTGTTTGGGGAGGTGGCTTTTTCGTCTGCTGTTGACTGAAC
ACTACAGCGCCCTGTGGTTCCGGGCTTCGCACAGCTGTCCCAGGGATGGATCGCCTGTGCTGCCTTCGCCCGCCG
CCACACCGGGACCCTGCACGGCTGCTTCTGGCCTCGACAGATGACAAAAGAAACAGCCCCAAAATACGACCACTC
CAACCAGCAGTTCCCGCCTGCCTGCCCGCCACTGTCAGGCCTGCCCTGGCCTCCTCGTCCGCAGGGCTGTCTGCT
GGCTTCTGGGGGCAGAAGAGCGGGGAGCCCCGTGGAAGGGTCAGGGGAGACCAGGTCAGGGCAGCTACATTTCTG
GTGATCAGCCCCATGGGGAGACGGGGCTGGCGGGATACCCCCCCCCCGGCTTCCCCACACCACTTCTGTCTCACC
CGGAAGCGTCCTTTTTTTGTGCCAGGTGTCTACCTAAGAGGGTTGGTGCCAGAAGCCCCCCATGGCGAGTGCTGG
GGCCCGGCGGTGCCCTGGGGGAGCAGATGGGGCCACCCCTGGCAGGGCCGCTACAACCTTTTCCAGCAGCGGAGC
CCTCTGGGGGGCCTGTGCTTGTGGCATCTCTGAGGGCCTAGATTGCACAAGGTGACCTGGCCGTGGCCTGAGGGT
GGAGTCGCCCAGCACGCAGGCCGGGGCGCTGCGGGGCTAAGTATTAGGCCTTCCCAGGGAGGGGGCGTGCCAAGC
ATCCCAGAGCCGGGCTGGGACCGCCAAAACGTCGTGGCCTGGATCCTCTGGGTCTGAGTGCCTGATCCCCTGCCC
CCCAAAAAAGCAGAGGTAGGTGTTGCAGGCCCAGGGCAGGGGTGCCTGCCCCAGGAGAGTCCCAGGCAGTGGTTC
TCGTGCCAGTGGCACCCAGGGGCAAGGACAGCCAACCCCCACCCTTGCCACGTGTGGGGCCACGTGGGCATGTGG
GGTGTGTGTTTTTACCTTGGTGAATCTCACCTGCCAACGATTTCTCGTGAGTGCCAATGTCCCCAGTGGTGGCA
GCAGATCCTGTGGCCGGCCTGGCGGACGGGACCCAGTGATACTTGTATATTACACAGTCCTGATTTCAGACAATT
TCAACCTTAATCTATTTAAAAAAGAATATTCTATACAAGCTGTTTTTAAGCCTTTTACCATTTGAAATGCATGTG
TTGTGCGCGTTGGGGATGGGAGGAGGGGCTGAGGAGCGGCTCAGTGTCACCTCCCACAGCCACCGGCCCTGACCC
TTAATCCAGACACCGATGGAAGTCGACTTTTCATATCTTTCTCCTGAAATGAACTCTGTTTTAAATTGGAATAAA
TTTTGTTCCT
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5606/6881
FIGURE 5167

MDRLCCLRPPPHRDPARLLLASTDDKRNSPKIRPLQPAVPACLPATVRPALASSSAGLSAGFWGQKSGEPRGRVR
GDQVRAATFLVISPMGRRGWRDTPPPASPHHFCLTRKRPFFVPGVYLRGLVPEAPHGECWGPAVPWGSRWGHPWQ
GRYNLFQQRSPLGGLCLWHL

5607/6881
FIGURE 5168

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GGCCGCCCGGCGCCCCCAGCAGCCCGAGCCGGGGCGCACAGCCGGGGCGCAGCCCGCGCCCCCCGCCGCGATTGA
CATGATGTTTCCACAAAGCAGGCATTCGGGCTCCTCGCACCTACCCCAGCAACTCAAATTCACCACCTCGGACTC
CTGCGACCGCATCAAAGACGAATTTCAGCTACTGCAAGCTCAGTACCACAGCCTCAAGCTCGAATGTGACAAGTT
GGCCAGTGAGAAGTCAGAGATGCAGCGTCACTATGTGATGTACTACGAGATGTCCTACGGCTTGAACATCGAGAT
GCACAAACAGGCTGAGATCGTCAAAAGGCTGAACGGGATTTGTGCCCAGGTCCTGCCCTACCTCTCCCAAGAGCA
CCAGCAGCAGGTCTTGGGAGCCATTGAGAGGGCCAAGCAGGTCACCGCTCCCGAGCTGAACTCTATCATCCGACA
GCAGCTCCAAGCCCACCAGCTGTCCCAGCTGCAGGCCCTGGCCCTGCCCTTGACCCCACTACCCGTGGGGCTGCA
GCCGCCTTCGCTGCCGGCGGTCAGCGCAGGCACCGGCCTCCTCTCGCTGTCCGCGCTGGGTTCCCAGGCCCACCT
CTCCAAGGAAGACAAGAACGGGCACGATGGTGACACCCACCAGGAGGATGATGGCGAGAAGTCGGATTAGCAGGG
GGCCGGGACAGGGAGGTTGGGAGGGGGGACAGAGGGGAGACAGAGGCACGGAGAGAAAGGAATGTTTAGCACAAG
ACACAGCGGAGCTCGGGATTGGCTAAACTCCCATAGTATTTATGGTGGCCGCCGGCGGGGGCCCCAGCCCAGCTT
GCAGGCCACCTCTAGCTTTCTTCCTACCCCATTCCCGGCTTCCCTCCTCCTCCCCTGCAGCCTGGTTAGGTGGAT
ACCTGCCCTGACATGTGAGGCAAGCTAAGGCCTGGAGGGTCAGATGGGAGACCAGGTCCCAAGGGAGCAAGACCT
CGCGAAGCGCAGCAGCCCCGGCCCTTCCCCCGTTTTGAACATGTGTAACCGACAGTCTGCCTGGGCCACAGCCCT
CTCACCCTGGTACTGCATGCACGCAATGCTAGCTGCCCCTTTCCCGTCCTGGGCACCCCGAGTCTCCCCCGACCC
CGGGTCCCAGGTATGCTCCCACCTCCACCTGCCCCACTCACCACCTCTGCTAGTTCCAGACACCTCCACGCCCAC
CTGGTCCTCTCCCATCGCCCACAAAAGGGGGGGCACGAGGGACGAGCTTAGCTGAGCTGGGAGGAGCAGGGTGAG
GGTGGGCGACCCAGGATTCCCCCTCCCCTTCCCAAATAAAGATGAGGGTACT
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5608/6881
FIGURE 5169

ATGGACCAGGACTATGAGCGGCGCCTGCTTCGCCAGATCGTCATCCAGAATGAGAACACGATGCCACGCGTCACA
GAGATGCGGCGGACCCTGACGCCTGCCAGCTCCCCAGTGTCCTCGCCCAGCAAGCACGGAGACCGCTTCATCCCC
TCCAGAGCCGGAGCCAACTGGAGCGTGAACTTCCACAGGATTAACGAGAATGAGAAGTCTCCCAGTCAGAACCGG
AAAGCCAAGGACGCCACCTCAGACAACGGCAAAGACGGCCTGGCCTACTCTGCCCTGCTCAAGAATGAGCTGCTG
GGTGCCGGCATCGAGAAGGTGCAGGACCCGCAGACTGAGGACCGCAGGCTGCAGCCCTCCACGCCTGAGAAGAAG
GGTCTGTTCACGTATTCCCTTAGCACCAAGCGCTCCAGCCCCGATGACGGCAACGATGTGTCTCCCTACTCCCTG
TCTCCCGTCAGCAACAAGAGCCAGAAGCTGCTCCGGTCCCCCCGGAAACCCACCCGCAAGATCTCCAAGATCCCC
TTCAAGGTGCTGGACGCGCCCGAGCTGCAGGACGACTTCTACCTCAATCTGGTGGACTGGTCGTCCCTCAATGTG
CTCAGCGTGGGGCTAGGCACCTGCGTGTACCTGTGGAGTGCCTGTACCAGCCAGGTGACGCGGCTCTGTGACCTC
TCAGTGGAAGGGGACTCAGTGACCTCCGTGGGCTGGTCTGAGCGGGGGAACCTGGTGGCGGTGGGCACACACAAG
GGCTTCGTGCAGATCTGGGACGCAGCCGCAGGGAAGAAGCTGTCCATGTTGGAGGGCCACACGGCACGCGTCGGG
GCGCTGGCCTGGAATGCTGAGCAGCTGTCGTCCGGGAGCCGCGACCGCATGATCCTGCAGAGGGACATCCGCACC
CCGCCACTGCAGTCGGAGCGGCGGCTGCAGGGCCACCGGCAGGAGGTGTGCGGGCTCAAGTGGTCCACAGACCAC
CATCTCCTCGCCTCGGGGGGGCAACGACAACAAGCTGCTGGTCTGGAATCACTCGAGCCTGAGCCCCGTGCAGCAG
TACACGGAGCACCTGGCGGCCGTGAAGGCAATCGCCTGGTCCCCACATCAGCACGGGCTGCTGGCCTCGGGGGGC
GGCACAGCTGACCGCTGTATCCGCTTCTGGAACACGCTGACAGGACAACCACTGCAGTGTATCGACACGGGCTCC
CAAGTGTGCAATCTGGCCTGGTCCAAGCACGCCAACGAGCTGGTGAGCACGCACGGTTACTCACAGAACCAGATC
CTTGTCTGGAAGTACCCCTCCCTGACCCAGGTGGCCAAGCTGACCGGGCACTCCTACCGCGTGCTGTACCTGGCA
ATGTCCCCTGATGGGGAGGCCATCGTCACTGGTGCTGGAGACGAGACCCTGAGGTTCTGGAACGTCTTTAGCAAA
ACCCGTTCGACAAAGGTAAAGTGGGAGTCTGTGTCTGTGCTCAACCTCTTCACCAGGATCCGG**TAA**

5609/6881
FIGURE 5170

MDQDYERRLLRQIVIQNENTMPRVTEMRRTLTPASSPVSSPSKHGDRFIPSRAGANWSVNFHRINENEKSPSQNR
KAKDATSDNGKDGLAYSALLKNELLGAGIEKVQDPQTEDRRLQPSTPEKKGLFTYSLSTKRSSPDDGNDVSPYSL
SPVSNKSQKLLRSPRKPTRKISKIPFKVLDAPELQDDFYLNLVDWSSLNVLSVGLGTCVYLWSACTSQVTRLCDL
SVEGDSVTSVGWSERGNLVAVGTHKGFVQIWDAAAGKKLSMLEGHTARVGALAWNAEQLSSGSRDRMILQRDIRT
PPLQSERRLQGHRQEVCGLKWSTDHHLLASGGNDNKLLVWNHSSLSPVQQYTEHLAAVKAIAWSPHQHGLLASGG
GTADRCIRFWNTLTGQPLQCIDTGSQVCNLAWSKHANELVSTHGYSQNQILVWKYPSLTQVAKLTGHSYRVLYLA
MSPDGEAIVTGAGDETLRFWNVFSKTRSTKVKWESVSVLNLFTRIR

5610/6881
FIGURE 5171

TTTCCCGAGATCACCAAG**ATG**CTGGGCGCCGAGTGGAGCAAGCTGCAGCCAACGGAAAAGCAGCGGTACCTGGAT
GAGGCCGAGAGAGAGAAGCAGCAGTACATGAAGGAGCTGCGGGCGTACCAGCAGTCTGAAGCCTATAAGATGTGC
ACGGAGAAGATCCAGGAGAAGAAGATCAAGAAAGAAGACTCGAGCTCTGGGCTCATGAACACTCTCCTGAATGGA
CACAAGGGTGGGGACTGCGATGGCTTCTCCACCTTCGATGTTCCCATCTTCACTGAAGAGTTCTTGGACCAAAAC
AAAGCGCGTGAGGCGGAGCTTCGGCGCTTGCGGAAGATGAATGTGGCCTTCGAGGAGCAGAACGCGGTACTGCAG
AGGCAAAACGCAGAGCATGAGCAGCGCGCGCGAGCGTCTGGAGCAGGAGCTGGCGCTGGAGGAGCGGAGGACGCT
GGCGCTGCAGCAGCAGCTCCAGGCCGTGCGCCAGGCGCTCACCGCCAGCTTCGCCTCACTGCCGGTGCCGGGCAC
GGGCGAAACGCCCACGCTGGGCACTCTGGACTTCTACATGGCCCGGCTTCACGGAGCCATCGAGCGCGACCCCGC
CCAGCACGAGAAGCTCATCGTCCGCATCAAGGAAATCCTGGCCCAGGTCGCCAGCGAGCACCTGTGAGGAGTGGG
CGGGCCCACGATGCAGAGGAGAAGCTGTGGGCGCGGCCCTGCCACACCCCACCCCGTGGACGAGAGGCTGGGGGT
CCACCCTTTGGGGCCTGGTCCCATCCTGCACCTTTGGGGGCTCCAGCCCCCCTAAAATTAAATTTCTGCAGCATC
CCTTTAGCTTTCAATCTCCCCAGCCCCCTGAACCCGGAAAAAGCACTCGCTGCGCGATACACCCAGAAGAACCTC
ACAGCCGAGGGTGCCCCTCCTCGGAGGACAGCCACGCGCTACACTGGCTCTCCGGGCCACCCCCAGGACACAGGG
CAGACGAAACCCACCCCCAGCACACGGCAGGACCCCCCAAATTACTCACTACGGGGGGCTGTGCCA**TAG**GCCACA
CAGGAAGCTGCCTTGTGGGGACTTACCTGGGGTGTCCCCCGCATGCCTGTACCCCAGATGGGTGGGGGCCGGCTT
TGCCCATCCTGCTCTCCTCCAGCCGAGGGACCCTGGTGGGGGTGGCTCCTTCTCACTGCTGGATCCGGACTTTTT
AAATAAAAACAAGTAAAATTTGTGTTTTAAAA

5611/6881
FIGURE 5172

MLGAEWSKLQPTEKQRYLDEAEREKQQYMKELRAYQQSEAYKMCTEKIQEKKIKKEDSSSGLMNTLLNGHKGGDC
DGFSTFDVPIFTEEFLDQNKAREAELRRLRKMNVAFEEQNAVLQRQNAEHEQRARASGAGAGAGGAEDAGAAAAA
PGRAPGAHRQLRLTAGAGHGRNAHAGHSGLLHGPASRSHRARPRPAREAHRPHQGNPGPGRQRAPVRSGRAHDAE
EKLWARPCHTPPRGREAGGPPFGAWSHPAPLGAPAPLKLNFCSIPLAFNLPSPLNPEKALAARYTQKNLTAEGAP
PRRTATRYTGSPGHPQDTGQTKPTPSTRQDPPNYSLRGAVP

FIGURE 5173

GCGCCAGGCCCGCTGGGGCAGGTGTCCCGTGGAAATCGACGGAGGGGCTGCCGTGGGCGGCCGTGACAGTCACAG
AGAGGGGAAGAGAAAACAGGGACGGTGACACACACAGAGAGAAGGAAGAGCAGACAGAGGCACAGCAGGAGACCC
CCCCAAGCCCGAGGAGGACAGCCTGGGGATGCAGAGCACATGCCGGCCCCAGTGGAGGGAACCGATTTCCCCGGA
GCCGGGGAGGCAAGCCTGGGGCTCCCCTGCCCTGTCCCTGCCGGTAGCCCCCCCAGCCGTCTCCCCACCATCTGTC
CCGCTGCCGTCCCACCAGGTGGGAGCC**ATGT**TCCTGAGCCCGGGCGAGGGGCCGGCAACCGAGGGTGGGGGTCTG
GGGCCGGGCGAGGAGGCCCCCAAGAAGAAGCACCGGAGGAACCGCACCACCTTCACCACCTACCAGCTGCACCAG
CTGGAGCGGGCGTTCGAGGCCTCTCACTACCCGGATGTGTACAGCCGTGAGGAGCTGGCAGCCAAGGTGCACCTA
CCTGAGGTGCGCGTGCAGGTGTGGTTCCAGAACCGCCGGGCCAAGTGGCGCCGCCAGGAGCGGCTGGAGTCAGGC
TCGGGTGCCGTGGCAGCTCCGAGACTCCCCGAGGCCCCAGCGCTGCCGTTCGCCCGCCCCCCGGCCATGTCGCTG
CCCCTGGAGCCCTGGTTGGGCCCCGGACCGCCGGCCGTGCCAGGCCTCCCCCGCCTCCTGGGCCCGGGCCCGGGG
CTGCAAGCGTCCTTCGGGCCTCATGCCTTTGCTCCCACCTTCGCAGATGGCTTCGCCCTGGAGGAGGCGTCCCTG
CGGCTGCTGGCCAAGGAACATGCACAGGCTCTGGACAGGGCCTGGCCGCCAGCC**TGA**GCCTGCCGCCCTCCCGGG
CCCCCTCCTCGGCCCAACCCGAGAACCGGGGACGTGCCCTGGTGACAGCCACCACGCCTTGGCCTAGGCCGAGGT
CATGGAGCAACCGTGGTCAGGCCAGGCCACCACCACTGGGGAGCGGGACCAGAGAGACAGGCTGCTGGGTTCCCT
GCCCCCATCCCGTCTCCCACCCCATCGCCACCCGTCCTGCTGGCAGCGGACTGGCCCCCAGTGTCAGGCAGGAGG
TGACCCAAGTATTCTCAGGCCAGGTGCGGGGACCTCCTCCCCTCCTGGGGCCTCAGTCTCCTGTCTGTTAATTGG
GCGTGGGGGCCTCCGAGGTTCGAGGGCTGCGAGGCTGTGGGTGGCGGGACCGCTGACTCTGTAAGATGAGTGTAA
ATCTCTCTGCTTCTCCTAATCCCCATCAGCAGAGCTGCCCACTCTCCAGGCTCCCAGTCCCCTGGAAATAACAAA
TAGCAGCAGCTCCCGCGAGCCTGGTCTCCTCTCACCGTGTGCTCGCCATGTGAGCACTCCCCTCTCCGTTGTGCC
CTGGACCTCGGGCACAGCTGTCAGCCCATTCTATAGAGAGGGAAACCGGGGCTTAGGCAGGAAGCCAGGTCCCCA
AAGTCGCACGGCCAGGAGTGGATGGAGCTGCCTTTCAGACCCATCACCGGTCCTACCGTCCGGGGCACAGCGACA
GGTTCTGGAGAGAGGGTGGGTCCCGGGCCAGGTGCTGGTGGGCCTCCAGGTGGAGGCGGGCTGATGCTGGGTGTG
TCGTCATCGTCAGACCGTTCCTCACGTCCCCACAGACCCCAGGCCCTGTGCATGTCCCCAGTGGAGGCATGGCCA
GCATCTGCTCTGTCCAACCCAGTCGCATCGCCCAAGAGCTCTGAGCAAGGAGGCTGTCGCGGGGCCGAGAACCCG
CTGGGACTGGCAAGCACGGCTGGCCCAGTGCAGCAGGAGGGGGCCCTGAGGCATGGGATGGGACAGTCTGGGCCA
GCGCCACCTCCCGGGACAGAAGTGCGGCACCAGGGCAGGAGCTGCAGTAGCTACCTCCCCGTCTCCAGCCTGGG
CTCCCCAGATCACTCCCAGATCACCAGGTCACCCCATCTCTAGGCGGCACCTCACACACCAGTCCTGTGGTCCAA
CGCCCCGCCATCACCCAATGTCACCGCACACCAGGCAGTGGGGACACGGCAGTAAGCACAAGAAAGATTTTTTTT
TTTTTAAAGCTAAACCAGGCCAGGTGCGGTGGCTCATGCCTGTAATCCCAGTGCTTTGGGAGGCTGAGGTGGGAG
GATTGCTTGAGACCAGCCTGGGTGACACAGCAAGACCCCATCTCCACAAACGTTTTTAAAATGTGCCGGGTGTAC
TGGTGCACACCTGTCATCCCAGCTACCCAAGAAGCTGAGGCAAGAGGATCACTTGAGCCCAGAAGGTCGAGGCTG
CAGGGAGCTGTGATCACACTGCTGCACTCCAGCCTGTGCAACAGAGCCAGACCCTGACTCAATACAAATAAAAAC
CAAATCTAAACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

FIGURE 5174

MFLSPGEGPATEGGGLGPGEEAPKKKHRRNRTTFTTYQLHQLERAFEASHYPDVYSREELAAKVHLPEVRVQVWF
QNRRAKWRRQERLESGSGAVAAPRLPEAPALPFARPPAMSLPLEPWLGPGPPAVPGLPRLLGPGPGLQASFGPHA
FAPTFADGFALEEASLRLLAKEHAQALDRAWPPA

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FIGURE 5175

GGCCGGCGGCGGCGGCGGCGCGCGGAGGAGACCGCAGTGCGGCCGGCGCTAGGACCCGCGGGGGCCTCCCAGGCC
GCGGCGCCTCCCGCTTTCCCCCACTCCCCGACCCTTCTTCGCCCCCAAAATGAGGAAACGGAGCAACTCGCTCCA
AGTTGTGCAGCCGGGACCGCCTCGGGGTGTGCAGCCGGCTCGCGGAGGCCCTCCTGGGGGCGGGCGCGGGGCGCG
GCTCGGGGGCGCCCCCTGAGCAGAAAACAGGAAGAACCAGGCTCGGTCCAGTGGCACCCAGCTCCCTACCTCCTG
TGCCAGCCGACTGGCCTGTGGCAGGCCATTCCCAGCGTCCCCGACTGTGACCACTTGCTCAGTGTGCCTCTCACC
TGCCTCAGTTTCCCTCTGGGGGCGATGGCGGGGCGAGGCTCTCTGGTTTCCTGGCGGGCATTTCACGGCTGTGAT
TCTGCTGAGGAACTTCCCCGGGTGAGCCCCCGCTTCCTCCGAGCCTGGCACCCCCTCCCGTCTCAGCCAGGATG
CCAACGAGGCGCTGGGCCCCGGGCACCCAGTGTATCACCAAATGCGAGCACACCCGCCCCAAGCCAGGGGAGCTG
GCCTTCCGCAAGGGCGACGTGGTCACCATCCTGGAGGCCTGCGAGAACAAGAGCTGGTACCGCGTCAAGCACCAC
ACCAGTGGACAGGAGGGGCTGCTGGCAGCTGGGGCGCTGCGGGAGCGGGAGGCCCTCTCCGCAGACCCCAAGCTC
AGCCTCATGCCGTGGTTCCACGGGAAGATCTCGGGCCAGGAGGCTGTCCAGCAGCTGCAGCCTCCCGAGGATGGG
CTGTTCCTGGTGCGGGAGTCCGCGCGCCACCCCGGCGACTACGTCCTGTGCGTGAGCTTTGGCCGCGACGTCATC
CACTACCGCGTGCTGCACCGCGACGGCCACCTCACAATCGATGAGGCCGTGTTCTTCTGCAACCTCATGGACATG
GTGGAGCATTACAGCAAGGACAAGGGCGCTATCTGCACCAAGCTGGTGAGACCAAAGCGGAAACACGGGACCAAG
TCGGCCGAGGAGGAGCTGGCCAGGGCGGGCTGGTTACTGAACCTGCAGCATTTGACATTGGGAGCACAGATCGGA
GAGGGAGAGTTTGGAGCTGTCCTGCAGGGTGAGTACCTGGGGCAAAAGGTGGCCGTGAAGAATATCAAGTGTGAT
GTGACAGCCCAGGCCTTCCTGGACGAGACGGCCGTCATGACGAAGATGCAACACGAGAACCTGGTGCGTCTCCTG
GGCGTGATCCTGCACCAGGGGCTGTACATTGTCATGGAGCACGTGAGCAAGGGCAACCTGGTGAACTTTCTGCGG
ACCCGGGGTCGAGCCCTCGTGAACACCGCTCAGCTCCTGCAGTTTTCTCTGCACGTGGCCGAGGGCATGGAGTAC
CTGGAGAGCAAGAAGCTTGTGCACCGCGACCTGGCCGCCCGCAACATCCTGGTCTCAGAGGACCTGGTGGCCAAG
GTCAGCGACTTTGGCCTGGCCAAAGCCGAGCGGAAGGGGCTAGACTCAAGCCGGCTGCCCGTCAAGTGGACGGCG
CCCGAGGCTCTCAAACACGGGAAGTTCACCAGCAAGTCGGATGTCTGGAGTTTTGGGGTGCTGCTCTGGGAGGTC
TTCTCATATGGACGGGCTCCGTACCCTAAAATGTCACTGAAAGAGGTGTCGGAGGCCGTGGAGAAGGGGTACCGC
ATGGAACCCCCCGAGGGCTGTCCAGGCCCCGTGCACGTCCTCATGAGCAGCTGCTGGGAGGCAGAGCCCGCCCGC
CGGCCACCCTTCCGCAAACTGGCCGAGAAGCTGGCCCGGGAGCTACGCAGTGCAGGTGCCCCAGCCTCCGTCTCA
GGGCAGGACGCCGACGGCTCCACCTCGCCCCGAAGCCAGGAGCCCTGACCCCACCCGGTGGGGCCCTTGGCCCCA
GAGGACCGAGAGAGTGGAGAGTGCGGCGTGGGGGCACTGACCAGGCCCAAGGAGGGTCCAGGCGGGCAAGTCATC
CTCCTGGTGCCCACAGCAGGGGCTGGCCCACGTAGGGGGCTCTGGGCGGCCCGTGGACACCCCAGACCTGCGAAG
GATGATCGCCCGATAAAGACGGATTCTAAGG

5615/6881
FIGURE 5176A

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GGAAGCCGAGCCTCTGCCAGCCCTGAGCTGGGAAGAAGCAGCTACCTCGGAGGCAGGGCGCGCAGGCGGGCGGCG
ATGAGAGGGGGCGCAGCCGCAGCCCCGCGCTGGGGAGCCCACCGCTAACCCTGCACCCCACCCACCCCTGCACAA
AAGAGCTGGCGGGCGCTGGCCACGTCGCCCTGGGTGACCTTCCTCGGATGCAGAATCCGCCCCTGCGAGCATCCT
CTTCCTCCTAGGCTCTGAAGGCCCGGGGAGCGTGAGCGATGCCCAGCTGCACCCGGGCAGGGCTCGCCTTTGTTT
GCCAGTAAGGAGGAGAGGCTGTCTCAGCTGCAGAGGGGTCATCCCTGCTTCAAGCCAGTGCCTCTTCCCAGCTCC
CATGGGGACCACCGAAGCCACGCTCCGGATGGAAAACGTGGACGTGAAGGAGGAATGGCAGGACGAAGATCTTCC
CAGGCCACTCCCAGAAGAGACGGGGGTGGAACTGCTTGGCAGCCCGGTGGAAGACACATCCTCTCCTCCCAACAC
GCTAAATTTCAACGGAGCGCATCGTAAGAGGAAGACGCTGGTGGCCCCAGAGATCAACATTTCTCTGGATCAGAG
TGAGGGGTCCCTGCTGTCCGATGACTTCTTGGATACCCCTGATGACCTGGATATTAACGTGGATGACATCGAGAC
CCCCGATGAGACCGACTCGCTGGAGTTCCTGGGGAATGGCAACGAACTGGAGTGGGAAGACGACACCCCCGTGGC
CACCGCCAAGAACATGCCCGGGGACAGCGCGGATCTATTTGGGGACGGCACGACGGAGGACGGCAGCGCCGCCAA
CGGGCGCCTGTGGCGGACAGTGATCATCGGGGAGCAAGAGCACCGTATAGACCTGCACATGATCCGGCCTTACAT
GAAAGTGGTCACCCACGGAGGGTACTACGGCGAAGGCCTCAACGCCATCATCGTCTTCGCAGCCTGCTTCCTTCC
AGACAGCAGCCTCCCCGACTACCACTACATCATGGAGAACCTCTTCCTGTACGTCATCAGCAGCTTAGAGCTCCT
GGTGGCTGAGGACTACATGATCGTGTACCTGAACGGTGCCACGCCCCGGCGGAGGATGCCTGGAATCGGCTGGCT
GAAGAAGTGCTACCAGATGATCGACCGGAGGTTGCGGAAAAACCTGAAGTCCTTGATCATCGTCCACCCCTCGTG
GTTCATTCGGACTGTGCTGGCCATCTCTCGCCCTTTCATCAGCGTCAAGTTCATCAACAAGATCCAGTACGTGCA
CAGCTTGGAAGACCTGGAGCAACTCATCCCTATGGAACACGTCCAGATCCCAGACTGCGTCCTGCAATACGAAGA
GGAAAGACTGAAGGCCAGGAGGGAGAGCGCGAGGCCCCAGCCGGAGTTTGTGCTGCCCAGGTCTGAAGAGAAGCC
AGAGGTGGCACCAGTGGAAAACAGGTCTGCTCTGGTCTCAGAAGATCAGGAAACAAGCATGTCCTGAGGCGACGT
GAGCATAACAAAGGACATGGAAGAAGATTCCAGATGCCAGAAAACCTCTGTCAGACGCCCACTGGCCCCAGATCT
CATCCTGCCTCATCCTGAGTCCCAATCTTCCAAGGGTGCCAGCCCCTCCGTTCATCTCTGAAACCCAGCATCCTT
TTCAGCTGCTTGAAAACATTGTATTTTTTTTTTTTAACGATGCAGTATTTGTGCGTTCCAGAAAAGGGCCCAGCT
CTGAGCCCCTCACCCTTCCACACTCACGAACTCTCAGCCGAGGAAGGCAAGAAGCGCAGGGGGTGGCCCGCGTGG
CGTCGGTGGCCTCCGCTCCTGCTCGCAGCCTCTGTGGTCAGAGCTGGATACAAGATTCAAGACCCTTCTCTTGCT
TGTCACCCGCTCCAGGTTGGAGCCACAGACACCCACCGCCACCCCGGCTGGGTCTGCGTCCTTTCCTGTGCCTTT
CCCTCCAGAATGCGGCCTCAGACCTAGAAGCTCAACCCCCCTATGAGGGCCACGTCCTGGGGTAGCTCCTGACCT
CCGACCTTATGTCCAAATTTCACACCCATGGTTTTTCATTTGACCCGCCCCCTTCTCGCTCATAATGACACCCAG
CTCCTTTGAGAGGATCAGAGCCCATTGCACAAGAAGAGCCGCTGCCAACCATCCTTGTCCTCCGATTGCAAAATG
ACACCCCAGTAATCTAGAACATTCTCAAGCCCCTTTAACTCAGATGTCAAGCCACCGGGCAAACCCCGTCAATAC
CTCCCACCAAGGAATGAGATATGTGGACCTCACTGCTCCCCCAACCCAGCGTCAGGCTGGGACACGCCAACGCTG
TTCCGGGTTGGAACAGCAGAGGCTCAGAAACTGGCTCTGAAATAGGCAGACCTAGCAAGAGGAAGATACAGGGTA
TCGGGCGTTTGAGTGTTTCAGAAGTCATTCGGGAAGATAAATCCAGTGCGCTGGCCGCAGCCACCTGCATTCAAA
GCTTGGACCAGCGGGTTCTTGTTCGGGAGGCAAATTTCCCTAGGAAAAAGAAGACAGACTTTTCTAATGTGGTCC
AAATGCGGATCACTGGTCAGATGGACTCTAGAAGCACTGAGCTCCCTGTCTCTGGAAGTATTTAAGAAAAGGCTG
GGCCAGGCACGATGGCTCACGCCTGTAATCCCAGACTTTGGGAGGCCGAGGCAGGCGGATCACCTGAGGTGAGGA
GTTTGAGAACAGCCTGGCCAACATGGTGAAACCTCATCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGTGGC
AGGTGCCTGTAATCCCAGCTACTTGGGAGGCTGAGGCATGAGAATCACTTAAACCTGAGAGGCAGAGGTTACAGT
GAGCCAAGATCGTGCCACTGCATTCCAGCCTGGGCGACAGAGCAAGACTCTGTCTCAAAAAAAATAAAAAATAAT
CAGGGCACAGTGGCTCATGCCTGTAATCCCAGCACTCTGGGAGGCTGAGGTGGGTGGATCACCTGAGGTCAGGAG
TTCAAGACCAGCCTGGTGAACATGGCGAAACCCCGTCTCTAATAAAAATACAAAAATTAGCCGGGCATGGTGGTG
CATGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAACTGCTTGAACCCAGGAGGCAGAGGTTGCAGTG
ATCCAAGATCATGCCACTGCACTCCAGCCTGGGCAACAAGAGCAAAACTCCGTCTCAAAATAAAAAGAAAAGAAA
AGAATGGCAGTGTTTGCAGAGAGTTGCTCACGAGTTTCCCTCTAATCCTAAATGTCTTCATGTCTATCAGTCTG
AGCAGACGGTGAGTAGGGCGGGCACATTCTCCAGGCCCTTCTTCCTAGCTCTGTGGTTGACCTCTCAGCAAGTGC
TATCCAGGCTGGGCCAACCAGACCCACAATTAACTGAGCCTCAGTGAAAGCGTCCAGTGCATCTTGACCTGAGAC
AGCAAGGAATTGCATTTGGGGTTATTCCAACGATGATGGCAGGGAACTGGTGGTATTTAGTGCTGAGGGGCAGTG
ATACAGAAAGATTTGCCCTGTGGGACAGGGTCCTGCGCGAGTCCCATCCCCAAAAGCCAGCAGCTCCTGCCATGA
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FIGURE 5176B

GGAAGACGGGGTTTCTGAGCAGGCTTATGCCTGCAGGTTCCTGTGGAGCCACCGGCTGTGACGGGACACCTCTGG
GTCTCAGCATTGCCCTGGGGAGGCTGGGACATTTAGGGACATGGTAGGGTTTTAACATTTGTTTCCCAAATGTCA
AATCCCGGGCACAGGGGCAAGACCCTGTCCCGAATTCCCACCCCAGTGAATGGTGTCGCTGCCAAAGCCAACACA
AGATGACAAAAGTGGCTGGGTACGGTGGCTCACGCCTATAATCCCAGCACTTTGGGAGACCGAGACAGGTGGATC
ACCTGAGGTCAGGAGTTCGAGACCAGGCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAATTAG
CTGGGTGTGGTGGCGCGCACCTGTAGTCCCAGCTACTCAGGAGGCTGAGGTAGAAGAATAGCTGGAACCCAGGAG
GCAGAGATTGCAGTCAGCCGAGATTGCACCACTGCACTCCAGCCTGGGAGACAGAGCAAGACTGACTCAAAAGAA
AAAAAATGACAGAAGCCTGATTATCAGACTGCCCGGAGGAGACAGGCTCCAGCAGATAGATGCCAGCCAGGCCCA
GCTGCCACGATTTGTCCCAGGTGACCAAAGGCACGCAGCTCCAGCATGAATCGTTCTAACCCAACAGTGACAAGA
ACTGCTGGGCCTTAACCGTCATGGAAGACTGGGGCCGCTTCCAAGTCACAGACAGGAGACGGGGACAGGAAAGAA
CTCATTCCACCCAATCGGACACCTAATAATTGAGTGTCTACAGCAGCAATCAAGTGACAAGTGAGGCCCTACCTG
ACCCAGAAGGTGCCTGCCGGCTAAACATTCTGCCCCCACCAGAAACTCCAGGGGGTCCGCCCGTTATGCCGTGGC
CCACCCACGCCCCTTTGGATCACCAGCAGTCACAGACAACAGGCAGGCGAAACTGAAGACCCCAACTCAGCCCCA
GCGGACCCTCCAGAGCAAAAGAGGCCCCCGGCGAGGCCACCTGTCGGCAGGCATGCCGAGGTCAAACAGCCGGGG
CCACCGTTCCCAGCTGGGCCACGACCTGCACCGTCCACAGATGGGCTTTGAGATGGATTTGTATCAGGGTGGGGG
GTGTGGTTTGGCCAAAATGCAATGGACCCCGACCCCTCCTCGTAAAAGGATGTTGGGTTTCCCTCTGGTGACACA
TGGGATGCGTCATAAACCCTCCCCCAAAGTCCTGGTCAGCAGCCCATCCTTCCAACGATGAGTTTTGCGGTTTTT
CAGAACAGAAATGATCACTACGATTGACGACGGTCGTGATGTTAAGACGTCGTCTCCATGAGCTTTGGGGGGACT
TTTATGTGGAATAAAGAAACTATCACTG

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FIGURE 5177

MGTTEATLRMENVDVKEEWQDEDLPRPLPEETGVELLGSPVEDTSSPPNTLNFNGAHRKRKTLVAPEINISLDQS
EGSLLSDDFLDTPDDLDINVDDIETPDETDSLEFLGNGNELEWEDDTPVATAKNMPGDSADLFGDGTTEDGSAAN
GRLWRTVIIGEQEHRIDLHMIRPYMKVVTHGGYYGEGLNAIIVFAACFLPDSSLPDYHYIMENLFLYVISSLELL
VAEDYMIVYLNGATPRRRMPGIGWLKKCYQMIDRRLRKNLKSLIIVHPSWFIRTVLAISRPFISVKFINKIQYVH
SLEDLEQLIPMEHVQIPDCVLQYEEERLKARRESARPQPEFVLPRSEEKPEVAPVENRSALVSEDQETSMS

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FIGURE 5178

ATGGTTAATTTTACGGTGGATCAGATCCGCGCCATCATGGACAAGAAGGCCAACATCCGCAACATGTCTGTCATC
GCCCACGTGGACCATGGCAAGTCCACGCTGACAGACTCCCTGGTGTGCAAGGCGGGCATCATCGCCTCGGCCCGG
GCCGGGGAGACACGCTTCACTGATACCCGGAAGGACGAGCAGGAGCGTTGCATCACCATCAAGTCAACTGCCATC
TCCCTCTTCTACGAGCTCTCGGAGAATGACTTGAACTTCATCAAGCAGAGCAAGGACGGTGCCGGCTTCCTCATC
AACCTCATTGACTCCCCGGGCATGTCGACTTCTCCTCGGAGGTGACTGCTGCCCTCCGAGTCACCGATGGCGCA
TTGGTGGTGGTGGACTGCGTGTCAGGCGTGTGCGTGCAGACGGAGACAGTGCTGCGGCAGGCCATTGCCGAGCGC
ATCAAGCCTGTGCTGATGATGAACAAGATGGACCGCGCCCTGCTGGAGCTGCAGCTGGAGCCCGAGGAGCTCTAC
CAGACTTTCCAGCGCATCGTGGAGAACGTGAACGTCATCATCTCCACCTACGGCGAGGGCGAGAGCGGCCCCATG
GGCAACATCATGATCGATCCTGTCCTCGGTACCGTGGGCTTTGGGTCTGGCCTCCACGGGTGGGCCTTCACCCTG
AAGCAGTTTGCCGAGATGTATGTGGCCAAGTTCGCCGCCAAGGGGGAGGGCCAGTTGGGGCCTGCCGAGCGGGCC
AAGAAAGTAGAGGACATGATGAAGAAGCTGTGGGGTGACAGGTACTTTGACCCAGCCAACGGCAAGTTCAGCAAG
TCAGCCACCAGCCCCGAAGGGAAGAAGCTGCCACGCACCTTCTGCCAGCTGATCCTGGACCCCATCTTCAAGGTG
TTTGATGCGATCATGAATTTCAAGAAAGAGGAGACAGCAAAACTGATAGAGAAACTGGACATCAAACTGGACAGC
GAGGACAAGGACAAAGAAGGCAAACCCCTGCTGAAGGCTGTGATGCGCCGCTGGCTGCCTGCCGGAGACGCCTTG
TTGCAGATGATCACCATCCACCTGCCCTCCCCTGTGACGGCCCAGAAGTACCGCTGCGAGCTCCTGTACGAGGGG
CCCCCGGACGACGAGGCTGCCATGGGCATTAAAAGCTGTGACCCCAAAGGCCCTCTTATGATGTATATTTCCAAA
ATGGTGCCAACCTCCGACAAAGGTCGGTTCTACGCCTTTGGACGAGTCTTCTCGGGGCTGGTCTCCACTGGCCTG
AAGGTCAGGATCATGGGGCCCAACTATACCCCTGGGAAGAAGGAGGACCTCTACCTGAAGCCAATCCAGAGAACA
ATCTTGATGATGGGCCGCTACGTGGAGCCCATCGAGGATGTGCCTTGTGGGAACATTGTGGGCCTCGTGGGCGTG
GACCAGTTCCTGGTGAAGACGGGCACCATCACCACCTTCGAGCACGCGCACAACATGCGGGTGATGAAGTTCAGC
GTCAGCCCTGTTGTCAGAGTGGCCGTGGAGGCCAAGAACCCGGCTGACCTGCCCAAGCTGGTGGAGGGGCTGAAG
CGGCTGGCCAAGTCCGACCCCATGGTGCAGTGCATCATCGAGGAGTCGGGAGAGCATATCATCGCGGGCGCCGGC
GAGCTGCACCTGGAGATCTGCCTGAAGGACCTGGAGGAGGACCACGCCTGCATCCCCATCAAGAAATCTGACCCG
GTCGTCTCGTACCGCGAGACGGTCAGTGAAGAGTCGAACGTGCTCTGCCTCTCCAAGTCCCCCAACAAGCACAAC
CGGCTGTACATGAAGGCGCGGCCCTTCCCCGACGGCCTGGCCGAGGACATCGATAAAGGCGAGGTGTCCGCCCGT
CAGGAGCTCAAGCAGCGGGCGCGCTACCTGGCCGAGAAGTACGAGTGGGACGTGGCTGAGGCCCGCAAGATCTGG
TGCTTTGGGCCCGACGGCACCGGCCCCAACATCCTCACCGACATCACCAAGGGTGTGCAGTACCTCAACGAGATC
AAGGACAGTGTGGTGGCCGGCTTCCAGTGGGCCACCAAGGAGGGCGCACTGTGTGAGGAGAACATGCGGGGTGTG
CGCTTCGACGTCCACGACGTCACCCTGCACGCCGACGCCATCCACCGCGGAGGGGGCCAGATCATCCCCACAGCA
CGGCGCTGCCTCTATGCCAGTGTGCTGACCGCCCAGCCACGCCTCATGGAGCCCATCTACCTTGTGGAGATCCAG
TGTCCAGAGCAGGTGGTCGGTGGCATCTACGGGGTTTTGAACAGGAAGCGGGGCCACGTGTTCGAGGAGTCCCAG
GTGGCCGGCACCCCCATGTTTGTGGTCAAGGCCTATCTGCCCGTCAACGAGTCCTTTGGCTTCACCGCTGACCTG
AGGTCCAACACGGGCGGCCAGGCGTTCCCCCAGTGTGTGTTTGACCACTGGCAGATCCTGCCCGGAGACCCCTTC
GACAACAGCAGCCGCCCCAGCCAGGTGGTGGCGGAGACCCGCAAGCGCAAGGGCCTGAAAGAAGGCATCCCTGCC
CTGGACAACTTCCTGGACAAATTGTAGGCGGCCCTTCCTGCAGCGCCTGCCGCCCCGGGGACTCGCAGCACCCAC
AGCACCACGTCCTCGAATTCTCAGACGACACCTGGAGACTGTCCCGACACAGCGACGCTCCCCTGAGAGGTTTCT
GGGGCCCGCTGCGTGCCATCACTCAACCATAACACTTGATGCCGTTTCTTTCAATATTTATTTCCAGAGTCCGGA
GGCAGCAGACACGCCCTCTTAGTAGGGACTTAATGGGCCGGTCGGGGAGGGGGAGGCGGGATGGGACACCCAACA
CTTTTTCCATTTCTTCAGAGGGAAACTCAGATGTCCAAACTAATTTTAACAAACGCATTAAGAGGTTTATTTGGG
TACATGGCCCGCAGTGGCTTTTGCCCCAGAAAGGGGAAAGGAACACGCGGGTAGATGATTTCTAGCAGGCAGGAA
GTCCTGTGCGGTGTCACCATGAGCACTCAGCTGTACTAGTGCCATTGGAATAATAAATTTGATAAGGTGTGAAAA

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FIGURE 5179

MVNFTVDQIRAIMDKKANIRNMSVIAHVDHGKSTLTDSLVCKAGIIASARAGETRFTDTRKDEQERCITIKSTAI
SLFYELSENDLNFIKQSKDGAGFLINLIDSPGHVDFSSEVTAALRVTDGALVVVDCVSGVCVQTETVLRQAIAER
IKPVLMMNKMDRALLELQLEPEELYQTFQRIVENVNVIISTYGEGESGPMGNIMIDPVLGTVGFGSGLHGWAFTL
KQFAEMYVAKFAAKGEGQLGPAERAKKVEDMMKKLWGDRYFDPANGKFSKSATSPEGKKLPRTFCQLILDPIFKV
FDAIMNFKKEETAKLIEKLDIKLDSEDKDKEGKPLLKAVMRRWLPAGDALLQMITIHLPSPVTAQKYRCELLYEG
PPDDEAAMGIKSCDPKGPLMMYISKMVPTSDKGRFYAFGRVFSGLVSTGLKVRIMGPNYTPGKKEDLYLKPIQRT
ILMMGRYVEPIEDVPCGNIVGLVGVDQFLVKTGTITTFEHAHNMRVMKFSVSPVVRVAVEAKNPADLPKLVEGLK
RLAKSDPMVQCIIEESGEHIIAGAGELHLEICLKDLEEDHACIPIKKSDPVVSYRETVSEESNVLCLSKSPNKHN
RLYMKARPFPDGLAEDIDKGEVSARQELKQRARYLAEKYEWDVAEARKIWCFGPDGTGPNILTDITKGVQYLNEI
KDSVVAGFQWATKEGALCEENMRGVRFDVHDVTLHADAIHRGGGQIIPTARRCLYASVLTAQPRLMEPIYLVEIQ
CPEQVVGGIYGVLNRKRGHVFEESQVAGTPMFVVKAYLPVNESFGFTADLRSNTGGQAFPQCVFDHWQILPGDPF
DNSSRPSQVVAETRKRKGLKEGIPALDNFLDKL

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FIGURE 5180

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CCCCTGCCTCTCGGACTCGGGCTGCGGCGTCAGCCTTCTTCGGGCCTCGGCAGCGGTAGCGGCTCGCTCGCCTCA
GCCCCAGCGCCCCTCGGCTACCCTCGGCCCAGGCCCGCAGCGCCGCCCGCCCTCGGCCGCCCCGACGCCGGCCTG
GGCCGCGGCCGCAGCCCCGGGCTCGCGTAGGCGCCGACCGCTCCCGGCCCGCCCCCTATGGGCCCCGGCTAGAGG
CGCCGCCGCCGCCGGCCCGCGGAGCCCCGATGCTGGCCCGGAGGAAGCCGGTGCTGCCGGCGCTCACCATCAACC
CTACCATCGCCGAGGGCCCATCCCCTACCAGCGAGGGCGCCTCCGAGGCAAACCTGGTGGACCTGCAGAAGAAGC
TGGAGGAGCTGGAACTTGACGAGCAGCAGAAGAAGCGGCTGGAAGCCTTTCTCACCCAGAAAGCCAAGGTCGGCG
AACTCAAAGACGATGACTTCGAAAGGATCTCAGAGCTGGGCGCGGGCAACGGCGGGGTGGTCACCAAAGTCCAGC
ACAGACCCTCGGGCCTCATCATGGCCAGGAAGCTGATCCACCTTGAGATCAAGCCGGCCATCCGGAACCAGATCA
TCCGCGAGCTGCAGGTCCTGCACGAATGCAACTCGCCGTACATCGTGGGCTTCTACGGGGCCTTCTACAGTGACG
GGGAGATCAGCATTTGCATGGAACACATGGACGGCGGCTCCCTGGACCAGGTGCTGAAAGAGGCCAAGAGGATTC
CCGAGGAGATCCTGGGGAAAGTCAGCATCGCGGTTCTCCGGGGCTTGGCGTACCTCCGAGAGAAGCACCAGATCA
TGCACCGAGATGTGAAGCCCTCCAACATCCTCGTGAACTCTAGAGGGGAGATCAAGCTGTGTGACTTCGGGGTGA
GCGGCCAGCTCATCGACTCCATGGCCAACTCCTTCGTGGGCACGCGCTCCTACATGGCTCCGGAGCGGTTGCAGG
GCACACATTACTCGGTGCAGTCGGACATCTGGAGCATGGGCCTGTCCCTGGTGGAGCTGGCCGTCGGAAGGTACC
CCATCCCCCCGCCCGACGCCAAAGAGCTGGAGGCCATCTTTGGCCGGCCCGTGGTCGACGGGGAAGAAGGAGAGC
CTCACAGCATCTCGCCTCGGCCGAGGCCCCCCGGGCGCCCCGTCAGCGGTCACGGGATGGATAGCCGGCCTGCCA
TGGCCATCTTTGAACTCCTGGACTATATTGTGAACGAGCCACCTCCTAAGCTGCCCAACGGTGTGTTCACCCCCG
ACTTCCAGGAGTTTGTCAATAAATGCCTCATCAAGAACCCAGCGGAGCGGGCGGACCTGAAGATGCTCACAAACC
ACACCTTCATCAAGCGGTCCGAGGTGGAAGAAGTGGATTTTGCCGGCTGGTTGTGTAAAACCTGCGGTGAACCAG
CCCGGCACACCCACGCGCACCGCCGTGTGACAGTGGCCGGGCTCCCTCGGTCCCGCTGGTGACCTGCCCACCGTC
CCTGTCCATGCCCCGCCCTTCCAGCTGAGGACCGTGGCGCCTCCACCCACCCTCCTGCCTCACCCTGCGGAGAGC
ACCGTGGCGGGGCGACAGCGCATGCAGGAACGGGGGTCTCCTCTCCTGCCGTCCTGGCCGGGGTGCCTCTGGGGA
CGGGCGACGCTGCTGTGTGTGGTCTCAGAGGCTCTGCTTCCTTAGGTTACAAAACAAAACAGGGAGAGAAAAAGC
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FIGURE 5181

GCTTCCGGCGGAAGCGGCCTCAACAAGGGAAACTTTATTGTTCCCGTGGGGCAGTCGAGG**ATG**TCGGTGAATTAC
GCGGCGGGGCTGTCGCCGTACGCGGACAAGGGCAAGTGCGGCCTCCCGGAGATCTTCGACCCCCCGGAGGAGCTG
GAGCGGAAGGTGTGGGAACTGGCGAGGCTGGTCTGGCAGTCTTCCAGTGTGGTGTTCCACACGGGTGCCGGCATC
AGCACTGCCTCTGGCATCCCCGACTTCAGGGGTCCCCACGGAGTCTGGACCATGGAGGAGCGAGGTCTGGCCCCC
AAGTTCGACACCACCTTTGAGAGCGCGCGGCCCACGCAGACCCACATGGCGCTGGTGCAGCTGGAGCGCGTGGGC
CTCCTCCGCTTCCTGGTCAGCCAGAACGTGGACGGGCTCCATGTGCGCTCAGGCTTCCCCAGGGACAAACTGGCA
GAGCTCCACGGGAACATGTTTGTGGAAGAATGTGCCAAGTGTAAGACGCAGTACGTCCGAGACACAGTCGTGGGC
ACCATGGGCCTGAAGGCCACGGGCCGGCTCTGCACCGTGGCTAAGGCAAGGGGGCTGCGAGCCTGCAGGGGAGAG
CTGAGGGACACCATCCTAGACTGGGAGGACTCCCTGCCCGACCGGGACCTGGCACTCGCCGATGAGGCCAGCAGG
AACGCCGACCTGTCCATCACGCTGGGTACATCGCTGCAGATCCGGCCCAGCGGGAACCTGCCGCTGGCTACCAAG
CGCCGGGGGAGGCCGCCTGGTCATCGTCAACCTGCAGCCCACCAAGCACGACCGCCATGCTGACCTCCGCATCCAT
GGCTACGTTGACGAGGTCATGACCCGGCTCATGGAGCACCTGGGGCTGGAGATCCCCGCCTGGGACGGCCCCCGT
GTGCTGGAGAGGGCGCTGCCACCCCTGCCCCGCCCGCCCACCCCCAAGCTGGAGCCCAAGGAGGAATCTCCCACC
CGGATCAACGGCTCTATCCCCGCCGGCCCCAAGCAGGAGCCCTGCGCCCAGCACAACGGCTCAGAGCCCGCCAGC
CCCAAACGGGAGCGGCCCACCAGCCCTGCCCCCCACAGACCCCCCAAAAGGGTGAAGGCCAAGGCGGTCCCCAGC
TGACCAGGGTGCTTGGGGAGGGTGGGGCTTTTTGTAGAAACTGTGGATTCTTTTTCTCTCGTGGTCTCACTTTGT
TACTTGTTTCTGTCCCCGGGAGCCTCAGGGCTCTGAGAGCTGTGCTCCAGGCCAGGGGTTACACCTGCCCTCCGT
GGTCCCTCCCTGGGCTCCAGGGGCCTCTGGTGCGGTTCCGGGAAGAAGCCACACCCCAGAGGTGACAGCTGAGCC
CCTGCCACACCCCAGCCTCTGACTTGCTGTGTTGTCCAGAGGTGAGGCTGGGCCCTCCCTGGTCTCCAGCTTAAA
CAGGAGTGAACTCCCTCTGTCCCCAGGGCCTCCCTTCTGGGCCCCCTACAGCCCACCCTACCCCTCCTCCATGGG
CCCTGCAGGAGGGGAGACCCACCTTGAAGTGGGGGATCAGTAGAGGCTTGCACTGCCTTTGGGGCTGGAGGGAGA
CGTGGGTCCACCAGGCTTCTGGAAAAGTCCTCAATGCAATAAAAACAATTTCTTTCTTGCAAA

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FIGURE 5182

MSVNYAAGLSPYADKGKCGLPEIFDPPEELERKVWELARLVWQSSSVVFHTGAGISTASGIPDFRGPHGVWTMEE
RGLAPKFDTTFESARPTQTHMALVQLERVGLLRFLVSQNVDGLHVRSGFPRDKLAELHGNMFVEECAKCKTQYVR
DTVVGTMGLKATGRLCTVAKARGLRACRGELRDTILDWEDSLPDRDLALADEASRNADLSITLGTSLQIRPSGNL
PLATKRRGGRLVIVNLQPTKHDRHADLRIHGYVDEVMTRLMEHLGLEIPAWDGPRVLERALPPLPRPPTPKLEPK
EESPTRINGSIPAGPKQEPCAQHNGSEPASPKRERPTSPAPHRPPKRVKAKAVPS

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FIGURE 5183

TCCATAACCTGCTGTGGCTCCCCATTGCCAGGCAGTGTAGAGTTCTGAATACCTTGTGCTGGAAGCTGAAGCCCT
TCCTGCCCCAGCCCTGAATCACCTCTCCAACTTCAGCCCCTCCTGCTCCTGCTGCAGCCCCCAAAACACTTGCAT
TTTCTCCTAAACTCATGGGCTCTTCCCAGCACCCAGGCCTTTGTTTACCCCTTCTGTCTGATCTTCCCTCTCACC
CTTCAAGAAACTGCTTAGCCTCCTCCAGGAAGCCCTTCCACGTGCCCCAGGGCCCCCACCTCCACGGGGCTTCCC
CAGGCCCAGGTACCTCCTCTGATCCAGGCTTGACTCTTGGGGCCAGAGGATCTGTGTCCACCTGTCTCCCCCAAG
ATCAAGGGCTTCTGGAGGGCAGGGCTTGGGCCCATGTGAGCATCGTCAGGCTCATTGCAGCAGCAGTGTTGGTTG
AATAGAATAAGTCATTTTTGCCTTCGTGTGAATTCATCTCTCTCTCTGCCTCTCCCTCTCTGTCTCTCTCC
AATTCTGTCTCTGACTTGCTTTGTCTTTAACTCTTTATCTCTCTGTCTGTGTCTTGTTCTATCCCCCTCTCCCTG
TTCTTGCAACTCACCCTCTATTTCTGTTTCTGATTCCCTCTCTCTGTCTCCCTGTCTCTCTCTGTCTCCTGATTT
·TCTCTCTCTCCAACTTTCTCTCTATACCTCTCTGATTCTCCCTCTGTCTCTTTTTCTGTTCCCCTCTCCCCGTCC
ATCTCTCCCGGCCTGCCACCTTCAGGGGTCCCCACGGAGTCTGGACCATGGAGGAGCGAGGTCTGGCCCCCAAGT
TCGACACCACCTTTGAGAGCGCGCGGCCCACGCAGACCCACATGGCGCTGGTGCAGCTGGAGCGCGTGGGCCTCC
TCCGCTTCCTGGTCAGCCAGAACGTGGACGGGCTCCATGTGCGCTCAGGCCTCCCTTCTGGGCCCCCTACAGCCC
ACCCTACCCCTCCTCCATGGGCCCTGCAGGAGGGGAGACCCACCTTGAAGTGGGGGATCAGTAGAGGCTTGCACT
GCCTTTGGGGCTGGAGGGAGACGTGGGTCCACCAGGCTTCTGGAAAAGTCCTCAATGCAATAAAAACAATTTCTT
TCTTGC

FIGURE 5184

CAAAAGGACAGATGCAGAGGACAGGCGCCAGGCACAGATACCATCTCCCTTCCCCAAGCCAGCTGCCCCCAACCC
TCCCCCTGCCCGCAATTAGTCCTCTGGGGCGGGAGCGGGGCACAGAGCAGAGCCCTCTTGGGGGAGGGGAAGCCC
GATCCGCACCCACCCTTCCTTTGCCCCCCTCTTCCTTCTGCTGCTCCAATATCAATTTCAGCCAGTGACCTCTCC
ACCAATTTGCACATCCCCACTCTCCCGGTCCGTTTCACCGCCAGACATCGGTTCCATTTCGACCCTCACTGGCGG
TCATTCCCACCCCCTCTGCTGGTCAATTTCACCCCTTTTGGCGGTCAAGTGCAGTCCCCCATTTCCCGGGCAATT
TCCCCCTCCCCTCCTTCTCCCTCTCCCCTCCCCTCCCCAGCAGTGTCACTCCCAGCTGCTCCCCACCTCCCGCGC
TCCGCGCTCGCTGCGGCCAGTCTCGGGCGTCCCGGTCAGTGTCCAGCTGCCGCGGCCTCGGCCCCGGCGACTCCC
GCCCCCAGCCCCCCTTCCCTCCGCGGGCAGCGGCTCCCTCCCTCCCCAGAACAGCTGAAGGTCTCAGTCACCTCC
GAGGGGAGCGCAGGGGGAGGGGAGGGGCGGGGGACGCGGCGGAGGGGAGGTGGGGGAGCCTTGACGCTGCTGCCC
GGGACGCGGCCCGGGGCTGGTGGGAACAGGGGCGTCCTCCTGCGCGCCCCCCTCCCCAGCGTCCCACCTCCCGGC
GGCGGCGGGGAAAGTCTCTCCGAAAGCGTGAAGGGGGATTGGAGGAGGTTTTTATTTCCCTTTGTGCGGGTGGCT
GGGGCCGGATCGAGGCGGCGGGGGCCGCGGGACTGGGGGCTCCCCGCTGAGCCGAGAGGAGCGCGACAAAGGATG
CGTCCCGCCGGGGTCACAGTCTCCGCGGCCCAACTTTGCGCGCGGCGCCCGCGCCCCTGGGGAGCCCGCCCGCTG
CGCTGAGAACCCAGGCGTCCGGGCTGGGAGAGGGGCCGGGAGCGTCCGCAGGTGGCGCTGGCCCGGATCTCCCGA
CCCCAGGAAGGGATCCCGGAGCTTCCTGGAGGCGGCGGGCGGCCGTGTCGCTCCAGGGAACCGCGCTGCCCGCGG
AAACTCCGCGCGCCTCCGCGGATGCCCCTCGCCCTAGCCCCCAGCGCGCGGGGTTCGGGGCCCTGCGAGGTCCCC
CCTTCCCCCGCGGTGCTTCCCAAGCTGGGCTAAGGCGGGCTTCTCTTCCTCCCTCCTCTGTCGCCTCCTTTTCCT
CCCCCTCGTTCACCTTTTCCTTCCCTCTATCCATCCAGAGCCCCGCCAAAGGGCGCACCTGATCTTTCTCATCCT
TCCCTGCTCTTCCCTTCCTCTCCACCTCCTCCTCCTCCTTGGGGAAAGGGGCCCGGAGAAGGGCATGTGGGGGCC
CCTCTGACAGTGGCCCGATTGGGGTGACAGGCGCCCAA**ATG**GCCAAGTGGCTACGGGACTACCTGAGCTTTGGGG
GTCGGAGGCCCCCTCCGCAGCCGCCCACCCCGGACTACACCGAGAGCGACATCCTGAGGGCCTACCGCGCGCAGA
AGAACCTGGACTTCGAGGACCCCTATGAGGACGCGGAGAGCCGCTTGGAGCCGGACCCCGCGGGCCCTGGGGACT
CCAAGAACCCCGGAGATGCCAAGTATGGTTCTCCCAAGCACCGGCTCATCAAGGTGGAGGCTGCGGATATGGCCA
GAGCCAAGGCCCTTCTGGGCGGCCCCGGGGAGGAGCTGGAAGCCGACACTGAGTATTTAGACCCCTTTGATGCTC
AGCCTCATCCTGCACCCCCGGATGATGGGTACATGGAGCCCTACGATGCCCAATGGGTCATGAGTGAACTTCCCG
GCAGAGGGGTGCAGCTCTATGACACCCCTTATGAGGAACAGGACCCAGAGACAGCAGATGGACCCCCTTCTGGGC
AGAAGCCTCGGCAGAGCCGGATGCCCCAGGAAGATGAACGGCCAGCAGATGAGTATGATCAGCCCTGGGAGTGGA
AGAAAGACCACATCTCCAGGGCGTTTGCAGTGCAGTTTGACAGTCCAGAGTGGGAGAGGACTCCAGGCTCAGCCA
AGGAGCTCCGGAGACCTCCGCCCAGAAGCCCCCAGCCTGCGGAGCGTGTGGACCCAGCCCTGCCCCTGGAGAAAC
AGCCGTGGTTTCATGGCCCCCTGAACAGGGCGGATGCAGAGAGCCTCCTGTCCCTCTGCAAGGAAGGCAGCTACC
TAGTGCGGCTCAGTGAGACCAACCCCCAGGACTGCTCCTTGTCTCTCAGGAGCAGCCAGGGCTTCCTGCATCTGA
AGTTCGCGCGGACCCGTGAGAACCAGGTGGTGCTGGGCCAACACAGCGGGCCCTTCCCCAGCGTGCCCGAGCTCG
TCCTCCACTACAGTTCACGCCCACTGCCGGTGCAGGGTGCCGAGCATCTGGCTCTGCTGTACCCCGTGGTCACGC
AGACCCCC**TGA**CAGTGACCCTCGGCCCCCTTTTGAGTCCTCGGGCCCAGAATCGTATCCCAAAGCCCTCCCATGG
CCTAGAAAATAAATAAGTTATTGTT

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FIGURE 5185

MAKWLRDYLSFGGRRPPPQPPTPDYTESDILRAYRAQKNLDFEDPYEDAESRLEPDPAGPGDSKNPGDAKYGSPK
HRLIKVEAADMARAKALLGGPGEELEADTEYLDPFDAQPHPAPPDDGYMEPYDAQWVMSELPGRGVQLYDTPYEE
QDPETADGPPSGQKPRQSRMPQEDERPADEYDQPWEWKKDHISRAFAVQFDSPEWERTPGSAKELRRPPPRSPQP
AERVDPALPLEKQPWFHGPLNRADAESLLSLCKEGSYLVRLSETNPQDCSLSRSSQGFLHLKFARTRENQVVLG
QHSGPFPSVPELVLHYSSRPLPVQGAEHLALLYPVVTQTP

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FIGURE 5186

ACCCAGCGTGCGCGGGGCCCGCGGGCCGGGCCGGGGTGACCTGGGCTGCAGCC**ATG**GAAGAACAGAGGGAGGCCC
TGAGGAAGATCATCAAAACACTGGCTGTGAAGAATGAAGAAATTCAGAGCTTTATCTACTCCCTGAAACAGATGC
TGCTGAACGTGGAGGCGAACTCGGCGAAGGTGCAGGAGGACCTCGAAGCAGAGTTCCAGTCCCTCTTCTCCCTCC
TGGAGGAGCTGAAAGAAGGCATGCTTATGAAGATAAAACAGGACCGTGCCAGCCGCACCTACGAGCTGCAGAACC
AGCTGGCTGCCTGCACGCGGGCCCTGGAGAGCTCCGAGGAGCTTCTGGAGACAGCCAACCAGACTCTGCAGGCCA
TGGACAGCGAGGACTTTCCTCAGGCTGCCAAGCAAATCAAAGATGGAGTGACCATGGCCCCTGCCTTCCGGCTAT
CATTGAAAGCGAAGGTCAGTGACAACATGAGTCACCTCATGGTGGACTTCGCGCAAGAGCGGCAGATGCTACAGG
CACTCAAGTTCCTGCCTGTGCCCAGCGCACCCGTGATCGACCTGGCTGAGTCCCTGGTGGCAGATAACTGTGTGA
CCCTGGTGTGGCGCATGCCGGATGAGGACAGCAAGATTGACCACTACGTGCTGGAGTACCGGCGGACCAACTTCG
AGGGCCCGCCCCGCCTCAAGGAGGACCAGCCCTGGATGGTCATCGAGGGCATCCGGCAGACAGAGTACACCCTGA
CAGGTCTCAAGTTTGACATGAAATACATGAACTTCCGTGTGAAGGCCTGTAACAAGGCAGTTGCAGGAGAGTTCT
CTGAGCCGGTGACTCTGGAGACACCAGCGTTCATGTTCCGCCTGGATGCGTCCACATCCCACCAGAACCTGCGGG
TGGATGATCTCTCCGTGGAGTGGGACGCTATGGGCGGGAAGGTGCAGGATATCAAGGCTCGCGAGAAAGATGGCA
AGGGGCGGACGGCGTCTCCCATCAACTCCCCAGCCAGAGGTACTCCATCTCCCAAGAGGATGCCCTCAGGTCGTG
GGGGACGGGACCGCTTCACCGCTGAGTCCTACACAGTTCTGGGGGACACGCTGATCGACGGCGGGGAGCATTACT
GGGAGGTGCGCTACGAGCCGGACAGCAAGGCGTTCGGCGTGGGCGTGGCCTACCGCAGCCTGGGCCGCTTCGAGC
AACTGGGCAAGACGGCCGCCTCCTGGTGCCTGCACGTCAACAATTGGCTGCAGGTCAGCTTCACGGCCAAGCACG
CCAACAAGGTCAAGGTGCTGGACGCCCCCGTGCCCGACTGCCTGGGTGTGCACTGTGACTTCCACCAAGGCCTCC
TGTCCTTCTACAATGCCCGCACCAAACAAGTGCTGCACACTTTCAAGACCAGGTTCACACAGCCGCTGCTGCCTG
CTTTCACGGTATGGTGTGGCAGCTTCCAGGTGACGACAGGCCTGCAGGTCCCCAGTGCTGTGCGCTGCCTGCAAA
AGCGAGGCAGTGCTACCAGCAGCTCCAACACCAGCCTCACC**TAG**GCCCCCAGGCACCCACCCAGCTGGGGTGTTT
TTGGGGGAGTCGCCGCCAAGCCCAGGCTGCTGGAGCCAGGCACCCTCCTCTGTCACTTGCTGCTTGGAGCCTTAA
CTCCAGATGGGGGGGTCACCAAGAGGGAGTGGGCACCCTGGCGGGCCCTCTCCCCACCTCACCTCTTAATAAAGG
TCAGACACTGGCCAGGCAAAAAAAAAAAAAAAAAA

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FIGURE 5187

MEEQREALRKIIKTLAVKNEEIQSFIYSLKQMLLNVEANSAKVQEDLEAEFQSLFSLLEELKEGMLMKIKQDRAS
RTYELQNQLAACTRALESSEELLETANQTLQAMDSEDFPQAAKQIKDGVTMAPAFRLSLKAKVSDNMSHLMVDFA
QERQMLQALKFLPVPSAPVIDLAESLVADNCVTLVWRMPDEDSKIDHYVLEYRRTNFEGPPRLKEDQPWMVIEGI
RQTEYTLTGLKFDMKYMNFRVKACNKAVAGEFSEPVTLETPAFMFRLDASTSHQNLRVDDLSVEWDAMGGKVQDI
KAREKDGKGRTASPINSPARGTPSPKRMPSGRGGRDRFTAESYTVLGDTLIDGGEHYWEVRYEPDSKAFGVGVAY
RSLGRFEQLGKTAASWCLHVNNWLQVSFTAKHANKVKVLDAPVPDCLGVHCDFHQGLLSFYNARTKQVLHTFKTR
FTQPLLPAFTVWCGSFQVTTGLQVPSAVRCLQKRGSATSSSNTSLT

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FIGURE 5188

GCGGCGGGCGGCAGC**ATG**TCGGTGGCGGGGCTGAAGAAGCAGTTCTACAAGGCGAGCCAGCTGGTCAGTGAGAAG
GTCGGAGGGGCCGAGGGGACCAAGCTGGATGATGACTTCAAAGAGATGGAGAAGAAGGTGGATGTCACCAGCAAG
GCGGTGACAGAAGTGCTGGCCAGGACCATCGAGTACCTGCAGCCCAACCCAGCCTCGCGGGCTAAGCTGACCATG
CTCAACACGGTGTCCAAGATCCGGGGCCAGGTGAAGAACCCCGGCTACCCGCAGTCGGAGGGGCTTCTGGGCGAG
TGCATGATCCGCCACGGGAAGGAGCTGGGCGGCGAGTCCAACTTTGGTGACGCATTGCTGGATGCCGGCGAGTCC
ATGAAGCGCCTGGCAGAGGTGAAGGACTCCCTGGACATCGAGGTCAAGCAGAACTTCATTGACCCCCTCCAGAAC
CTGTGCGAGAAAGACCTGAAGGAGATCCAGCACCACCTGAAGAAACTGGAGGGCCGCCGCCTGGACTTTGACTAC
AAGAAGAAGCGGCAGGGCAAGATCCCCGATGAGGAGCTACGCCAGGCGCTGGAGAAGTTCGAGGAGTCCAAGGAG
GTGGCAGAAACCAGCATGCACAACCTCCTGGAGACTGACATCGAGCAGGTGAGTCAGCTCTCGGCCCTGGTGGAT
GCACAGCTGGACTACCACCGGCAGGCCGTGCAGATCCTGGACGAGCTGGCGGAGAAGCTCAAGCGCAGGATGCGG
GAAGCTTCCTCACGCCCTAAGCGGGAGTATAAGCCCAAGCCCCGGGAGCCCTTTGACCTTGGAGAGCCTGAGCAG
TCCAACGGGGGCTTCCCCTGCACCACAGCCCCCAAGATCGCAGCTTCATCGTCTTTCCGATCTTCCGACAAGCCC
ATCCGGACCCCTAGCCGGAGCATGCCGCCCCTGGACCAGCCGAGCTGCAAGGCGCTGTACGACTTCGAGCCCGAG
AACGACGGGGAGCTGGGCTTCCATGAGGGCGACGTCATCACGCTGACCAACCAGATCGATGAGAACTGGTACGAG
GGCATGCTGGACGGCCAGTCGGGCTTCTTCCCGCTCAGCTACGTGGAGGTGCTTGTGCCCCTGCCGCAG**TGA**CTC
ACCCGTGTCCCCGCCCCGCCCCTCCGTCCACACTGGCCGGCACCCCCTGCTGGGTCTCCTGCATTCCACGGAGCC
CCTGCTGCCAGGGCGGTGTCTGAGCCTGCCGGCGCCACCTGGGCCCCGGCCCTTGAGGTACTCCCTGAGCAGGAC
CCCACACTTGGGTGGGGGGGCTTATCTGGGTGGGTGGGGATGCCTGTTTACACTAGCGCTGACTCCCAACGGTGA
CGGCTCCCTTCCCCACTCCATGGCGCCAGCCTCCTCCCCCGCTCCCCAACTTCTCGCCCAGCTGGCCGAGGCGGG
GCAACACTAAGGTGCTCTTAGAAACACTAATGTTCCTCTGGGGCAGCCCCCCACCTCCGTCCTGACCCGACGGGGG
CCCGGCCCACTGCCTACCCTCGAGTCCCGCAGCCTTAACAGGATGGGATCGAGGGTCCCCATGGGGTGGCTCAGA
GATAGGACCCTGGTTTTAAATCCCTCCCAGCCTGGTGCTGGTGATGGGCCCTGGCCCTACTCCAGGGCCAATGCA
CCCCCGCCTCACACACGCACTCCTTCTCCTCAAGGCCAGGGCAGAGGGCCTCACCGCCTCCCGGGCCTGCTGTCA
GCTTGCAGCCCGGGGACAGAGGCCAGCTGGGATCTGCCTGAGGACAGAGAACATGGTCTCCTGCAGGGCCCTGCC
TCCCAAGCCCCGCCCTCAGAAAGCCAAGTACCTTTTCAGCTTTTTAACTGCCCCCATCCCAACCCAGGGAGGCCT
GTGTCACTCTGGCACAAGCTGCCACCACCAGCCACCCACACCCACCCCAGCACACCTCACACGGGACCACAGCCG
CGCTGCCGAGGGCCAAGCACAAAGGTTCCAGTGAGCGCATGTCCCAGCCCTGGTGGCCAGGCTCCCCTTGCTGAG
CCGCTGCCACTTCACCCTGTGGGAAGTGGCCCCAGCCATCTCCTCTAGACCAAGGCAGGCAGCCCCGACATCTGC
TTCCTCTATCGCCCAATGCAAAATCGATGAAATGGGGAGTTCTCTGGGCCAGGCCACATTCACATTCCCCTCCCT
CTGTGGTCCAGTGAAGCTCCGGACCCCCAGGCTCTGCTCTGCCCTGCCCTGCACCCCCCTCGTCAGAAGTACATGA
GGGGCGCAGAGATGAGCACACAGCTTTGGGCACGGTCCAGGGCAAACTGAAATGTACGCCTGAATTTTGTAAACA
GAAGTATTAAATGTCTCTTTCTAC

5629/6881
FIGURE 5189

MSVAGLKKQFYKASQLVSEKVGGAEGTKLDDDFKEMEKKVDVTSKAVTEVLARTIEYLQPNPASRAKLTMLNTVS
KIRGQVKNPGYPQSEGLLGECMIRHGKELGGESNFGDALLDAGESMKRLAEVKDSLDIEVKQNFIDPLQNLCEKD
LKEIQHHLKKLEGRRLDFDYKKKRQGKIPDEELRQALEKFEESKEVAETSMHNLLETDIEQVSQLSALVDAQLDY
HRQAVQILDELAEKLKRRMREASSRPKREYKPKPREPFDLGEPEQSNGGFPCTTAPKIAASSSFRSSDKPIRTPS
RSMPPLDQPSCKALYDFEPENDGELGFHEGDVITLTNQIDENWYEGMLDGQSGFFPLSYVEVLVPLPQ

5630/6881
FIGURE 5190

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TTTTCTTCCGGGGGCTGGTCTCCGGCGGCCCCGTCCCCGACTGGGCCCCGTGCCCCCCCGCCCCCGCGGCCCCCC
GCCGCCGGGCCAGCCGCCACCATGAAGAAATTCTTTCAGGAGTTCAAGGCCGACATCAAGTTCAAGAGCGCGGGA
CCCGGTCAGAAGCTCAAAGAGTCCGTGGGGGAAAAGGCCCACAAAGAGAAGCCCAACCAGCCAGCCCCCAGGCCG
CCCCGCCAGGGACCCACCAATGAGGCACAGATGGCAGCCGCTGCTGCCCTAGCCCGGCTGGAGCAGAAGCAGTCC
CGGGCCTGGGGCCCCACATCGCAGGACACCATCCGAAACCAGGTGAGAAAGGAACTTCAAGCCGAAGCCACCGTC
AGCGGGAGCCCCGAGGCCCCAGGGACCAACGTGGTATCTGAGCCCAGAGAGGAAGGCTCTGCCCACCTGGCTGTG
CCTGGCGTGTACTTCACCTGTCCGCTCACTGGGGCCACCCTGAGGAAGGACCAGCGGGACGCCTGCATCAAGGAG
GCCATTCTCTTGCACTTCTCCACCGACCCAGTGGCCGCCTCCATCATGAAGATCTACACGTTCAACAAAGACCAG
GACCGGGTGAAGCTGGGTGTGGACACCATTGCCAAGTACCTGGACAACATCCACCTGCACCCCGAGGAGGAGAAG
TACCGGAAGATCAAGCTGCAGAACAAGGTGTTTCAGGAGCGCATTAACTGCCTGGAAGGGACCCACGAGTTTTTT
GAGGCCATTGGGTTCCAGAAGGTGTTGCTTCCCGCCCAGGATCAGGAGGACCCCGAGGAGTTCTACGTGCTGAGC
GAGACCACCTTGGCCCAGCCCCAGAGCCTGGAGAGGCACAAGGAACAGCTGCTGGCTGCGGAGCCCGTGCGCGCC
AAGCTGGACAGGCAGCGCCGCGTCTTCCAGCCCTCGCCCCTGGCCTCGCAGTTCGAACTGCCTGGGGACTTCTTC
AACCTCACAGCAGAGGAGATCAAGCGGGAGCAGAGGCTCAGGTCCGAGGCGGTGGAGCGGCTGAGCGTGCTGCGG
ACCAAGGCCATGCGGGAGAAGGAGGAGCAGCGGGGGCTGCGCAAGTACAACTACACGCTGCTGCGCGTGCGCCTC
CCCGATGGCTGCCTCCTGCAGGGCACTTTCTACGCTCGGGAGCGGCTGGGGGCGGTGTACGGGTTCGTCCGGGAG
GCCCTGCAGAGCGACTGGCTGCCTTTTGAGCTGCTGGCCTCGGGAGGGCAGAAGCTGTCCGAGGACGAGAACCTG
GCCTTGAACGAGTGCGGGCTGGTGCCCTCTGCCCTCCTGACCTTCTCGTGGGACATGGCTGTGCTGGAGGACATC
AAGGCCGCGGGGGGCCGAGCCGGACTCCATCCTGAAACCCGAGCTCCTGTCAGCCATCGAGAAGCTCTTGTGAAAT
AAAAGCAGGGTTGGCCTCAGCCCTGTGGGTCTGTCTCATGCTCTCCCTGTTCCTCTCCCCGCCACCCCAGGGCCT
CCAAGCCACCTCTGGAAATACTTGGCTCTGCCCCATGGGCACGGGAGGGGCGCCAGCCGTGGAGCTGTGGAATTG
GGCCCCGTGGCAGAGCCCCCATCCCTTGGGGGCTGTGGGGATGCGCCCAAGCCCCCGAGGGAGAGGCCTGGGGAC
ACCAAC
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5631/6881
FIGURE 5191

MKKFFQEFKADIKFKSAGPGQKLKESVGEKAHKEKPNQPAPRPPRQGPTNEAQMAAAAALARLEQKQSRAWGPTS
QDTIRNQVRKELQAEATVSGSPEAPGTNVVSEPREEGSAHLAVPGVYFTCPLTGATLRKDQRDACIKEAILLHFS
TDPVAASIMKIYTFNKDQDRVKLGVDTIAKYLDNIHLHPEEEKYRKIKLQNKVFQERINCLEGTHEFFEAIGFQK
VLLPAQDQEDPEEFYVLSETTLAQPQSLERHKEQLLAAEPVRAKLDRQRRVFQPSPLASQFELPGDFFNLTAEEI
KREQRLRSEAVERLSVLRTKAMREKEEQRGLRKYNYTLLRVRLPDGCLLQGTFYARERLGAVYGFVREALQSDWL
PFELLASGGQKLSEDENLALNECGLVPSALLTFSWDMAVLEDIKAAGAEPDSILKPELLSAIEKLL

5632/6881
FIGURE 5192

GTCTACCCGCCCCTGCCCTGAGGACCCTAGTCCAAC**ATG**GCGGCGCCCAGCGGAGGGTGGAACGGCGTCGGCGCG
AGCTTGTGGGCCGCGCTGCTCCTAGGGGCCGTGGCGCTGAGGCCGGCGGAGGCGGTGTCCGAGCCCACGACGGTG
GCGTTTGACGTGCGGCCCGGCGGCGTCGTGCATTCCTTCTCCCATAACGTGGGCCCGGGGGACAAATATACGTGT
ATGTTCACTTACGCCTCTCAAGGAGGGACCAATGAGCAATGGCAGATGAGTCTGGGGACCAGCGAAGACCACCAG
CACTTCACCTGCACCATCTGGAGGCCCCAGGGGAAGTCCTATCTGTACTTCACACAGTTCAAGGCAGAGGGTGCGG
GGCGCTGAGATTGAGTACGCCATGGCCTACTCTAAAGCCGCATTTGAAAGGGAAAGTGATGTCCCTCTGAAAACT
GAGGAATTTGAAGTGACCAAAACAGCAGTGGCTCACAGGCCCGGGGCATTCAAAGCTGAGCTGTCCAAGCTGGTG
ATTGTGGCCAAGGCATCGCGCACTGAGCTG**TGA**CCAGCAGCCCTGTTGCGGGTGGCACCTTCTCATCTCCGGTGA
AGCTGAAGGGGCCCTCCTGGCTCCCAACAGCTTCTCAGTTCCCACTTCCTGCTGAGCTCTTCTGGACTCAGGATC
GCAGATCCGGGGCACAAAGAGGGTGGGGAACATGGGGGCTATGCTGGGGAAAGCAGCCATGCTCCCCCCGACCTC
CAGCCGAGCATCCTTCATGAGCCTGCAGAACTGCTTTCCTATGTTACCCAGGGGACCTCCTTTCAGATGAACTG
GGAAGAGATGAAATGTTTTTTCATATTTAAATAAATAAGAACATTAAAAAGC

5633/6881
FIGURE 5193

MAAPSGGWNGVGASLWAALLLGAVALRPAEAVSEPTTVAFDVRPGGVVHSFSHNVGPGDKYTCMFTYASQGGTNE
QWQMSLGTSEDHQHFTCTIWRPQGKSYLYFTQFKAEVRGAEIEYAMAYSKAAFERESDVPLKTEEFEVTKTAVAH
RPGAFKAELSKLVIVAKASRTEL

FIGURE 5194A

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AAGGTGCCTGAGCCGGCGGGTCCCCTGTGTCCGCCGCGGCTGTCGTCCCCCGCTCCCGCCACTTCCGGGGTCGCA
GTCCCGGGCATGGAGCCGCGACCGTGAGGCGCCGCTGGACCCGGGACGACCTGCCCAGTCCGGCCGCCGCCCCAC
GTCCCGGTCTGTGTCCCACGCCTGCAGCTGGAATGGAGGCTCTCTGGACCCTTTAGAAGGCACCCCTGCCCTCCT
GAGGTCAGCTGAGCGGTTAATGCGGAAGGTTAAGAAACTGCGCCTGGACAAGGAGAACACCGGAAGTTGGAGAAG
CTTCTCGCTGAATTCCGAGGGGGCTGAGAGGATGGCCACCACCGGGACCCCAACGGCCGACCGAGGCGACGCAGC
CGCCACAGATGACCCGGCCGCCCGCTTCCAGGTGCAGAAGCACTCGTGGGACGGGCTCCGGAGCATCATCCACGG
CAGCCGCAAGTACTCGGGCCTCATTGTCAACAAGGCGCCCCACGACTTCCAGTTTGTGCAGAAGACGGATGAGTC
TGGGGCCCCACTCCCACCGCCTCTACTACCTGGGAATGCCATATGGCAGCCGAGAGAACTCCCTCCTCTACTCTGA
GATTCCCAAGAAGGTCCGGAAAGAGGCTCTGCTGCTCCTGTCCTGGAAGCAGATGCTGGATCATTTCCAGGCCAC
GCCCCACCATGGGGTCTACTCTCGGGAGGAGGAGCTGCTGAGGGAGCGGAAACGCCTGGGGGTCTTCGGCATCAC
CTCCTACGACTTCCACAGCGAGAGTGGCCTCTTCCTCTTCCAGGCCAGCAACAGCCTCTTCCACTGCCGCGACGG
CGGCAAGAACGGCTTCATGGTGTCCCCTATGAAACCGCTGGAAATCAAGACCCAGTGCTCAGGGCCCCGGATGGA
CCCCAAAATCTGCCCTGCCGACCCTGCCTTCTTCTCCTTCATCAATAACAGCGACCTGTGGGTGGCCAACATCGA
GACAGGCGAGGAGCGGCGGCTGACCTTCTGCCACCAAGGTTTATCCAATGTCCTGGATGACCCCAAGTCTGCGGG
TGTGGCCACCTTCGTCATACAGGAAGAGTTCGACCGCTTCACTGGGTACTGGTGGTGCCCCACAGCCTCCTGGGA
AGGTTCAGAGGGCCTCAAGACGCTGCGAATCCTGTATGAGGAAGTCGATGAGTCCGAGGTGGAGGTCATTCACGT
CCCCTCTCCTGCGCTAGAAGAAAGGAAGACGGACTCGTATCGGTACCCCAGGACAGGCAGCAAGAATCCCAAGAT
TGCCTTGAAACTGGCTGAGTTCCAGACTGACAGCCAGGGCAAGATCGTCTCGACCCAGGAGAAGGAGCTGGTGCA
GCCCTTCAGCTCGCTGTTCCCGAAGGTGGAGTACATCGCCAGGGCCGGGTGGACCCGGGATGGCAAATACGCCTG
GGCCATGTTCCTGGACCGGCCCCAGCAGTGGCTCCAGCTCGTCCTCCTCCCCCCGGCCCTGTTCATCCCGAGCAC
AGAGAATGAGGAGCAGCGGCTAGCCTCTGCCAGAGCTGTCCCCAGGAATGTCCAGCCGTATGTGGTGTACGAGGA
GGTCACCAACGTCTGGATCAATGTTCATGACATCTTCTATCCCTTCCCCCAATCAGAGGGAGAGGACGAGCTCTG
CTTTCTCCGCGCCAATGAATGCAAGACCGGCTTCTGCCATTTGTACAAAGTCACCGCCGTTTTAAAATCCCAGGG
CTACGATTGGAGTGAGCCCTTCAGCCCCGGGGAAGATGAATTTAAGTGCCCCATTAAGGAAGAGATTGCTCTGAC
CAGCGGTGAATGGGAGGTTTTGGCGAGGCACGGCTCCAAGATCTGGGTCAATGAGGAGACCAAGCTGGTGTACTT
CCAGGGCACCAAGGACACGCCGCTGGAGCACCACCTCTACGTGGTCAGCTATGAGGCGGCCGGCGAGATCGTACG
CCTCACCACGCCCGGCTTCTCCCATAGCTGCTCCATGAGCCAGAACTTCGACATGTTCGTCAGCCACTACAGCAG
CGTGAGCACGCCGCCCTGCGTGCACGTCTACAAGCTGAGCGGCCCCGACGACGACCCCCTGCACAAGCAGCCCCG
CTTCTGGGCTAGCATGATGGAGGCAGCCAGCTGCCCCCCCGGATTATGTTCCTCCAGAGATCTTCCATTTCCACAC
GCGCTCGGATGTGCGGCTCTACGGCATGATCTACAAGCCCCACGCCTTGCAGCCAGGGAAGAAGCACCCCACCGT
CCTCTTTGTATATGGAGGCCCCCAGGTGCAGCTGGTGAATAACTCCTTCAAAGGCATCAAGTACTTGCGGCTCAA
CACACTGGCCTCCCTGGGCTACGCCGTGGTTGTGATTGACGGCAGGGGCTCCTGTCAGCGAGGGCTTCGGTTCGA
AGGGGCCCTGAAAAACCAAATGGGCCAGGTGGAGATCGAGGACCAGGTGGAGGGCCTGCAGTTCGTGGCCGAGAA
GTATGGCTTCATCGACCTGAGCCGAGTTGCCATCCATGGCTGGTCCTACGGGGGCTTCCTCTCGCTCATGGGGCT
AATCCACAAGCCCCAGGTGTTCAAGGTGGCCATCGCGGGTGCCCCGGTCACCGTCTGGATGGCCTACGACACAGG
GTACACTGAGCGCTACATGGACGTCCCTGAGAACAACCAGCACGGCTATGAGGCGGGTTCCGTGGCCCTGCACGT
GGAGAAGCTGCCCAATGAGCCCAACCGCTTGCTTATCCTCCACGGCTTCCTGGACGAAAACGTGCACTTTTTCCA
CACAAACTTCCTCGTCTCCCAACTGATCCGAGCAGGGAAACCTTACCAGCTCCAGATCTACCCCAACGAGAGACA
CAGTATTCGCTGCCCCGAGTCGGGCGAGCACTATGAAGTCACGTTGCTGCACTTTCTACAGGAATACCTCTGAGC
CTGCCCACCGGGAGCCGCCACATCACAGCACAAGTGGCTGCAGCCTCCGCGGGGAACCAGGCGGGAGGGACTGAG
TGGCCCGCGGGCCCCAGTGAGGCACTTTGTCCCGCCCAGCGCTGGCCAGCCCCGAGGAGCCGCTGCCTTCACCGC
CCCGACGCCTTTTATCCTTTTTTAAACGCTCTTGGGTTTTATGTCCGCTGCTTCTTGGTTGCCGAGACAGAGAGA
TGGTGGTCTCGGGCCAGCCCCTCCTCTCCCCGCCTTCTGGGAGGAGGAGGTCACACGCTGATGGGCACTGGAGAG
GCCAGAAGAGACTCAGAGGAGCGGGCTGCCTTCCGCCTGGGGCTCCCTGTGACCTCTCAGTCCCCTGGCCCGGCC
AGCCACCGTCCCCAGCACCCAAGCATGCAATTGCCTGTCCCCCCGGCCAGCCTCCCCAACTTGATGTTTGTGTT
TTGTTTGGGGGGATATTTTTCATAATTATTTAAAAGACAGGCCGGGCGCGGTGGCTCACGTCTGTAATCCCAGCA
CTTTGGGAGGCTGAGGCGGGCGGATCACCTGAGGTTGGGAGTTCAAGACCAGCCTGGCCAACATGGGGAAACCCC
GTCTCTACTAAAAATACAAAAAATTAGCCGGGTGTGGTGGCGCGTGCCTATAATCCCAGCTACTCGGGAGGCTGA
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5635/6881
FIGURE 5194B

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GGCAGGAGAATCGCTTGAACCCGGGAGGTGGAGGTTGCGGTGAGCCAAGATCGCACCATTGCACTCCAGCCTGGG
CAACAAGAGCGAAACTCTGTCTCAAAATAAATAAAAAATAAAAGACAGAAAGCAAGGGGTGCCTAAATCTAGACT
TGGGGTCCACACCGGGCAGCGGGGTTGCAACCCAGCACCTGGTAGGCTCCATTTCTTCCCAAGCCCGAGCAGAGG
GTCATGCGGGCCCCACAGGAGAAGCGGCCAGGGCCCGCGGGGGGCACCACCTGTGGACAGCCCTCCTGTCCCCAA
GCTTTCAGGCAGGCACTGAAACGCACCGAACTTCCACGCTCTGCTGGTCAGTGGCGGCTGTCCCCTCCCCAGCCC
AGCCGCCCAGCCACATGTGTCTGCCTGACCCGTACACACCAGGGGTTCCGGGGTTGGGAGCTGAACCATCCCCAC
CTCAGGGTTATATTTCCCTCTCCCCTTCCCTCCCCGCCAAGAGCTCTGCCAGGGGCGGGCAAAAAAAAAAAGTAAA
AAGAAAAGAAAAAAAAAAAAA
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5636/6881
FIGURE 5195

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TTCCAAGCTGGTTTTGAAGTCGCGGCAGCTGTTCCTGGGACGTCCGGTTGACCGCGCGTCTGCTGCAGAGACCAT
GTCTGCCGACGGGGCAGAGGCTGATGGCAGCACCCAGGTGACAGTGGAAGAACCGGTACAGCAGCCCAGTGTGGT
GGACCGTGTGGCCAGCATGCCTCTGATCAGCTCCACCTGCGACATGGTGTCCGCAGCCTATGCCTCCACCAAGGA
GAGCTACCCGCACATCAAGACTGTCTGCGACGCAGCAGAGAAGGGAGTGAGGACCCTCACGGCGGCTGCTGTCAG
CGGGGCTCAGCCGATCCTCTCCAAGCTGGAGCCCCAGATTGCATCAGCCAGCGAATACGCCCACAGGGGGCTGGA
CAAGTTGGAGGAGAACCTCCCCATCCTGCAGCAGCCCACGGAGAAGGTCCTGGCGGACACCAAGGAGCTTGTGTC
GTCTAAGGTGTCGGGGGCCCAAGAGATGGTGTCTAGCGCCAAGGACACGGTGGCCACCCAATTGTCGGAGGCGGT
GGACGCGACCCGCGGTGCTGTGCAGAGCGGCGTGGACAAGACAAAGTCCGTAGTGACCGGCGGCGTCCAATCGGT
CATGGGCTCCCGCTTGGGCCAGATGGTGTTGAGTGGGGTCGACACGGTGCTGGGGAAGTCGGAGGAGTGGGCGGA
CAACCACCTGCCCCTTACGGATGCCGAACTGGCCCGCATCGCCACATCCCTGGATGGCTTTGACGTCGCGTCCGT
GCAGCAGCAGCGGCAGGAACAGAGCTACTTCGTACGTCTGGGCTCCCTGTCGGAGAGGCTGCGGCAGCACGCCTA
TGAGCACTCGCTGGGCAAGCTTCGAGCCACCAAGCAGAGGGCACAGGAGGCTCTGCTGCAGCTGTCGCAGGTCCT
AAGCCTGATGGAAACTGTCAAGCAAGGCGTTGATCAGAAGCTGGTGGAAGGCCAGGAGAAGCTGCACCAGATGTG
GCTCAGCTGGAACCAGAAGCAGCTCCAGGGCCCCGAGAAGGAGCCGCCCAAGCCAGAGCAGGTCGAGTCCCGGGC
GCTCACCATGTTCCGGGACATTGCCCAGCAACTGCAGGCCACCTGTACCTCCCTGGGGTCCAGCATTCAGGGCCT
CCCCACCAATGTGAAGGACCAGGTGCAGCAGGCCCGCCGCCAGGTGGAGGACCTCCAGGCCACGTTTTCCAGCAT
CCACTCCTTCCAGGACCTGTCCAGCAGCATTCTGGCCCAGAGCCGTGAGCGTGTCGCCAGCGCCCGCGAGGCCCT
GGACCACATGGTGGAATATGTGGCCCAGAACACACCTGTCACGTGGCTCGTGGGACCCTTTGCCCCTGGAATCAC
TGAGAAAGCCCCGGAGGAGAAGAAGTAGGGGGAGAGGAGAGGACTCAGCGGGCCCCGTCTCTATAATGCAGCTGT
GCTCTGGAGTCCTCAACCCGGGGCTCATTTCAAACTTATTTTCTAGCCACTCCTCCCAGCTCTTCTGTGCTGTCC
ACTTGGGAAGCTAAGGCTCTCAAAAACGGGCATCACCCAGTTGACCCATCTCTCAGCCTCTCTGAGCTTGGAAGAA
GCCTGTTCTGAGCCTCACCCTATCAGTCAGTAGAGAGAGATGTCCAGAAAAAATATCTTTCAGGAAAGTTCTCCC
CTGCAGAATTTTTTTTCCTTGTTAAATATCAGGAATATAGGCCGGGTGCGGTGGCTCACACCTGTAATCCCAGCA
CTTTGGGAGGCTGAGGCGGGCGGAACACCTGAGGTCAGGTGTTCGAGACCAGCCAGGCCAACATGGTGAAACCCC
GTCTCTACTAAAAATACAAAAAAAAATGAGCCGGGCATGGTAGCAGGTGTCTGTTATCCCAGTTAGGAGGCTGAG
GCAAGAGAATCTCTTGAACCTGAGAGGCGGAGGTTGCAGTGAGCCAAGATCGCGCCATTGCACTCCAGCCTGGGG
GACAAGAGTGAGACTTAGTCTCA
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5637/6881
FIGURE 5196A

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CGACTCCTTAGAGCATGGCATGGCTCAGAGGTGCTGGTAAAACTGATGGGGGTTTTTGCTGTCCCTCCCCTCAGC
GCCGACACCATGTGGATCCAGGTTCGGACCATGGACGGGAGGCAGACCCACACGGTGGACTCGCTGTCCAGGCTG
ACCAAGGTGGAGGAGCTGAGGCGGAAGATCCAGGAGCTGTTCCACGTGGAGCCAGGCCTGCAGAGGCTGTTCTAC
AGGGGCAAACAGATGGAGGACGGCCATACCCTCTTCGACTACGAGGTCCGCCTGAATGACACCATCCAGCTCCTG
GTCCGCCAGAGCCTCGTGCTCCCCCACAGCACCAAGGAGCGGGACTCCGAGCTCTCCGACACCGACTCCGGCTGC
TGCCTGGGCCAGAGTGAGTCAGACAAGTCCTCCACCCACGGTGAGGCGGCCGCCGAGACTGACAGCAGGCCAGCC
GATGAGGACATGTGGGATGAGACGGAATTGGGGCTGTACAAGGTCAATGAGTACGTCGATGCTCGGGACACGAAC
ATGGGGGCGTGGTTTGAGGCGCAGGTGGTCAGGGTGACGCGGAAGGCCCCCTCCCGGGACGAGCCCTGCAGCTCC
ACGTCCAGGCCGGCGCTGGAGGAGGACGTCATTTACCACGTGAAATACGACGACTACCCGGAGAACGGCGTGGTC
CAGATGAACTCCAGGGACGTCCGAGCGCGCGCCCGCACCATCATCAAGTGGCAGGACCTGGAGGTGGGCCAGGTG
GTCATGCTCAACTACAACCCCGACAACCCCAAGGAGCGGGGCTTCTGGTACGACGCGGAGATCTCCAGGAAGCGC
GAGACCAGGACGGCGCGGGAACTCTACGCCAACGTGGTGCTGGGGGATGATTCTCTGAACGACTGTCGGATCATC
TTCGTGGACGAAGTCTTCAAGATTGAGCGGCCGGGTGAAGGGAGCCCCATGGTTGACAACCCCATGAGACGGAAG
AGCGGGCCGTCCTGCAAGCACTGCAAGGACGACGTGAACAGACTCTGCCGGGTCTGCGCCTGCCACCTGTGCGGG
GGCCGGCAGGACCCCGACAAGCAGCTCATGTGCGATGAGTGCGACATGGCCTTCCACATCTACTGCCTGGACCCG
CCCCTCAGCAGTGTTCCCAGCGAGGACGAGTGGTACTGCCCTGAGTGCCGGAATGATGCCAGCGAGGTGGTACTG
GCGGGAGAGCGGCTGAGAGAGAGCAAGAAGAAGGCGAAGATGGCCTCGGCCACATCGTCCTCACAGCGGGACTGG
GGCAAGGGCATGGCCTGTGTGGGCCGCACCAAGGAATGTACCATCGTCCCGTCCAACCACTACGGACCCATCCCG
GGGATCCCCGTGGGCACCATGTGGCGGTTCCGAGTCCAGGTCAGCGAGTCGGGTGTCCATCGGCCCCACGTGGCT
GGCATACACGGCCGGAGCAACGACGGAGCGTACTCCCTAGTCCTGGCGGGGGGCTATGAGGATGATGTGGACCAT
GGGAATTTTTTCACATACACGGGTAGTGGTGGTCGAGATCTTTCCGGCAACAAGAGGACCGCGGAACAGTCTTGT
GATCAGAAACTCACCAACACCAACAGGGCGCTGGCTCTCAACTGCTTTGCTCCCATCAATGACCAAGAAGGGGCC
GAGGCCAAGGACTGGCGGTCGGGGAAGCCGGTCAGGGTGGTGCGCAATGTCAAGGGTGGCAAGAATAGCAAGTAC
GCCCCCGCTGAGGGCAACCGCTACGATGGCATCTACAAGGTTGTGAAATACTGGCCCGAGAAGGGGAAGTCCGGG
TTTCTCGTGTGGCGCTACCTTCTGCGGAGGGACGATGATGAGCCTGGCCCTTGGACGAAGGAGGGGAAGGACCGG
ATCAAGAAGCTGGGGCTGACCATGCAGTATCCAGAAGGCTACCTGGAAGCCCTGGCCAACCGAGAGCGAGAGAAG
GAGAACAGCAAGAGGGAGGAGGAGGAGCAGCAGGAGGGGGGCTTCGCGTCCCCCAGGACGGGCAAGGGCAAGTGG
AAGCGGAAGTCGGCAGGAGGTGGCCCGAGCAGGGCCGGGTCCCCGCGCCGGACATCCAAGAAAACCAAGGTGGA
GCCCTACAGTCTCACGGCCCAGCAGAGCAGCCTCATCAGAGAGGACAAGAGCAACGCCAAGCTGTGGAATGAGGT
CCTGGCGTCACTCAAGGACCGGCCGGCGAGCGGCAGCCCGTTCCAGTTGTTCCTGAGTAAAGTGGAGGAGACGTT
CCAGTGTATCTGCTGTCAGGAGCTGGTGTTCCGGCCCATCACGACCGTGTGCCAGCACAACGTGTGCAAGGACTG
CCTGGACAGATCCTTTCGGGCACAGGTGTTCAGCTGCCCTGCCTGCCGCTACGACCTGGGCCGCAGCTATGCCAT
GCAGGTGAACCAGCCTCTGCAGACCGTCCTCAACCAGCTCTTCCCCGGCTACGGCAATGGCCGGTGATCTCCAAG
CACTTCTCGACAGGCGTTTTGCTGAAAACGTGTCGGAGGGCTCGTTCATCGGCACTGATTTTGTTCTTAGTGGGC
TTAACTTAAACAGGTAGTGTTCCTCCGTTCCCTAAAAAGGTTTGTCTTCCTTTTTTTTTTTATTTTTATTTTTC
AAATCTATACATTTTCAGGAATTTATGTATTCTGGCTAAAAGTTGGACTTCTCAGTATTGTGTTTAGTTCTTTGA
AAACATAAAAGCCTGCAATTTCTCGACAAAACAACACAAGATTTTTTAAAGATGGAATCAGAAACTACGTGGTGT
GGAGGCTGTTGATGTTTCTGGTGTCAAGTTCTCAGAAGTTGCTGCCACCAACTCTTTAAGAAGGCGACAGGATCA
GTCCTTCTCTCGGGTTCTGGCCCCCAAGGTCAGAGCAAGCATCTTCCTGACAGCATTTGTCATCTAAAGTCCAG
TGACATGGTTCCCCGTGGTGGCCCGTGGCAGCCCGTGGCATGGCGTGGCTCAGCTGTCTGTTGAAGTTGTTGCAA
GGAAAAGAGGAAACATCTCGGGCCTAGTTCAAACCTTTGCCTCAAAGCCATCCCCCACCAGACTGCTTAGCGTCT
GAGATCCGCGTGAAAAGTCCTCTGCCCACGAGAGCAGGGAGTTGGGGCCACGCAGAAATGGCCTCAAGGGGACTC
TGCTCCACGTGGGGCCAGGCGTGTGACTGACGCTGTCCGACGAAGGCGGCCACGGACGGACGCCAGCACACGAAG
TCACGTGCAAGTGCCTTTGATTCGTTCCTTCTTTCTAAAGACGACAGTCTTTGTTGTTAGCACTGAATTATTGAA
AATGTCAACCAGATTCTAGAAACTGCGGTCATCCAGTTCTTCCTGACACCGGATGGGTGCTTGGGAACCGTTTGA
GCCTTATAGATCATTTACATTCAATTTTTTTAACTCAGCAAGTGAGAACTTACAAGAGGGTTTTTTTAAAATTTT
TTTTTCTCTTAATGAACACATTTTCTAAATGAATTTTTTTTGTAGTTACTGTATATGTACCAAGAAAGATATAAC
GTTAGGGTTTGGTTGTTTTTGTTTTTGTATTTTTTTTCTTTTGAAAGGGTTTGTTAATTTTTCTAATTTTACCAA
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5638/6881
FIGURE 5196B

AGTTTGCAGCCTATACCTCAATAAAACAGGGATATTTTAAATCACATACCTGCAGACAAACTGGAGCAATGTTAT
TTTTAAAGGGTTTTTTTCACCTCCTTATTCTTAGATTATTAATGTATTAGGGAAGAATGAGACAATTTTGTGTAG
GCTTTTTCTAAAGTCCAGTACTTTGTCCAGATTTTAGATTCTCAGAATAAATGTTTTTCACAGAT

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FIGURE 5197A

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GTCGCCAGCAACCGAGCGGGGCCCGGCCCGAGCGGGGCCTGGGGGTGCGACGCCGAGGGCGGGGGAGAGCGCGCC
GCTGCTCCCGGACCGGGCCGCGCACGCCGCCTCAGGAACCATCACTGTTGCTGGAGGCACCTGACAAATCCTAGC
GAATTTTTGGAGCATCTCCACCCAGGAACCTCGCCATCCAGAAGTGTGCTTCCCGCACAGCTGCAGCCATGGGGT
CTGAGGACCACGGCGCCCAGAACCCCAGCTGTAAAATCATGACGTTTCGCCCAACCATGGAAGAATTTAAAGACT
TCAACAAATACGTGGCCTACATAGAGTCGCAGGGAGCCCACCGGGCGGGCCTGGCCAAGATCATCCCCCCGAAGG
AGTGGAAGCCGCGGCAGACGTATGATGACATCGACGACGTGGTGATCCCGGCGCCCATCCAGCAGGTGGTGACGG
GCCAGTCGGGCCTCTTCACGCAGTACAATATCCAGAAGAAGGCCATGACAGTGGGCGAGTACCGCCGCCTGGCCA
ACAGCGAGAAGTACTGTACCCCGCGGCACCAGGACTTTGATGACCTTGAACGCAAATACTGGAAGAACCTCACCT
TTGTCTCCCCGATCTACGGGGCTGACATCAGCGGCTCTTTGTATGATGACGACGTGGCCCAGTGGAACATCGGGA
GCCTCCGGACCATCCTGGACATGGTGGAGCGCGAGTGCGGCACCATCATCGAGGGCGTGAACACGCCCTACCTGT
ACTTCGGCATGTGGAAGACCACCTTCGCCTGGCACACCGAGGACATGGACCTGTACAGCATCAACTACCTGCACT
TTGGGGAGCCTAAGTCCTGGTACGCCATCCCACCAGAGCACGGCAAGCGCCTGGAGCGGCTGGCCATCGGCTTCT
TCCCCGGGAGCTCGCAGGGCTGCGACGCCTTCCTGCGGCATAAGATGACCCTCATCTCGCCCATCATCCTGAAGA
AGTACGGGATCCCCTTCAGCCGGATCACGCAGGAGGCCGGGGAATTCATGATCACATTTCCCTACGGCTACCACG
CCGGCTTCAATCACGGGTTCAACTGCGCAGAATCTACCAACTTCGCCACCCTGCGGTGGATTGACTACGGCAAAG
TGGCCACTCAGTGCACGTGCCGGAAGGACATGGTCAAGATCTCCATGGACGTGTTCGTGCGCATCCTGCAGCCCG
AGCGCTACGAGCTGTGGAAGCAGGGCAAGGACCTCACGGTGCTGGACCACACGCGGCCCACGGCGCTCACCAGCC
CCGAGCTGAGCTCCTGGAGTGCATCCCGGGCCTCGCTGAAGGCCAAGCTCCTCCGCAGGTCTCACCGGAAACGGA
GCCAGCCCAAGAAGCCGAAGCCCGAAGACCCCAAGTTCCCTGGGGAGGGTACGGCTGGGGCAGCGCTCCTAGAGG
AGGCTGGGGGCAGCGTGAAGGAGGAGGCTGGGCCGGAGGTTGACCCCGAGGAGGAGGAGGAGGAGCCGCAGCCAC
TGCCACACGGCCGGGAGGCCGAGGGCGCAGAAGAGGACGGGAGGGGCAAGCTGCGGCCAACCAAGGCCAAGAGCG
AGCGGAAGAAGAAGAGCTTCGGCCTGCTGCCCCCACAGCTGCCGCCCCCGCCTGCTCACTTCCCCTCAGAGGAGG
CGCTGTGGCTGCCATCCCCACTGGAGCCCCCGGTGCTGGGCCCAGGCCCTGCAGCCATGGAGGAGAGCCCCCTGC
CGGCACCCCTTAATGTCGTGCCCCCTGAGGTGCCCAGTGAGGAGCTAGAGGCCAAGCCTCGGCCCATCATCCCCA
TGCTGTACGTGGTGCCGCGGCCGGGCAAGGCAGCCTTCAACCAGGAGCACGTGTCCTGCCAGCAGGCCTTTGAGC
ACTTTGCCCAGAAGGGTCCGACCTGGAAGGAACCAGTTTCCCCCATGGAGCTGACGGGGCCAGAGGACGGTGCAG
CCAGCAGTGGGGCAGGTCGCATGGAGACCAAAGCCCGGGCCGGAGAGGGGCAGGCACCGTCCACATTTTCCAAAT
TGAAGATGGAGATCAAGAAGAGCCGGCGCCATCCCCTGGGCCGGCCGCCCACCCGGTCCCCACTGTCGGTGGTGA
AGCAGGAGGCCTCAAGTGACGAGGAGGCATCCCCTTTCTCCGGGGAGGAAGATGTGAGTGACCCGGACGCCTTGA
GGCCGCTGCTGTCTCTGCAGTGGAAGAACAGGGCGGCCAGCTTCCAGGCCGAGAGGAAGTTCAACGCAGCGGCTG
CGCGCACGGAGCCCTACTGCGCCATCTGCACGCTCTTCTACCCCTACTGCCAGGCCCTACAGACTGAGAAGGAGG
CACCCATAGCCTCCCTCGGAAAGGGCTGCCCGGCCACATTACCCTCCAAAAGCCGTCAGAAGACCCGACCGCTCA
TCCCTGAGATGTGCTTCACCTCTGGCGGTGAGAACACGGAGCCGCTGCCTGCCAACTCCTACATCGGCGACGACG
GGACCAGCCCCCTGATCGCCTGCGGCAAGTGCTGCCTGCAGGTCCATGCCAGTTGCTATGGCATCCGTCCCGAGC
TGGTCAATGAAGGCTGGACGTGTTCCCGGTGCGCGGCCCACGCCTGGACTGCGGAGTGCTGCCTGTGCAACCTGC
GAGGAGGTGCGCTGCAGATGACCACCGATAGGAGGTGGATCCACGTGATCTGTGCCATCGCAGTCCCCGAGGCGC
GCTTCCTGAACGTGATTGAGCGCCACCCTGTGGACATCAGCGCCATCCCCGAGCAGCGGTGGAAGCTGAAATGCG
TGTACTGCCGGAAGCGGATGAAGAAGGTGTCAGGTGCCTGTATCCAGTGCTCCTACGAGCACTGCTCCACGTCCT
TCCACGTGACCTGCGCCCACGCCGCAGGCGTGCTCATGGAGCCGGACGACTGGCCCTATGTGGTCTCCATCACCT
GCCTCAAGCACAAGTCGGGGGGTCACGCTGTCCAACTCCTGAGGGCCGTGTCCCTAGGCCAGGTGGTCATCACCA
AGAACCGCAACGGGCTGTACTACCGCTGTCGCGTCATCGGTGCCGCCTCGCAGACCTGCTACGAAGTGAACTTCG
ACGATGGCTCCTACAGCGACAACCTGTACCCTGAGAGCATCACGAGTAGGGACTGTGTCCAGCTGGGACCCCCTT
CCGAGGGGGAGCTGGTGGAGCTCCGGTGGACTGACGGCAACCTCTACAAGGCCAAGTTCATCTCCTCCGTCACCA
GCCACATCTACCAGGTGGAGTTTGAGGACGGGTCCCAGCTGACGGTGAAGCGTGGGGACATCTTCACCCTGGAGG
AGGAGCTGCCCAAGAGGGTCCGCTCTCGGCTGTCACTGAGCACGGGGGCACCGCAGGAGCCCGCCTTCTCGGGGG
AGGAGGCCAAGGCCGCCAAGCGCCCGCGTGTGGGCACCCCGCTTGCCACGGAGGACTCCGGGCGGAGCCAGGACT
ACGTGGCCTTCGTGGAGAGCCTCCTGCAGGTGCAGGGCCGGCCCGGAGCCCCCTTCTAGGACAGCTGGCCGCTCA
GGCGACCCTCAGCCCGGCGGGGAGGCCATGGCATGCCCCGGGCGTTCGCTTGCTGTGAATTCCTGTCCTCGTGTC
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FIGURE 5197B

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CCCGACCCCCGAGAGGCCACCTCCAAGCCGCGGGTGCCCCCTAGGGCGACAGGAGCCAGCGGGACGCCGCACGCG
GCCCCAGACTCAGGGAGCAGGGCCAGGCGGGCTCGGGGGCCGGCCAGGGGAGCACCCCACTCAACTACTCAGAAT
TTTAAACCATGTAAGCTCTCTTCTTCTCGAAAAGGTGCTACTGCAATGCCCTACTGAGCAACCTTTGAGATTGTC
ACTTCTGTACATAAACCACCTTTGTGAGGCTCTTTCTATAAATACATATTGTTTAAAAAAAAGCAAGAAAAAAAG
GAAAACAAAGGAAAATATCCCCAAAGTTGTTTTCTAGATTTGTGGCTTTAAGAAAAACAAAACAAAACAAACACA
TTGTTTTTCTCAGAACCAGGATTCTCTGAGAGGTCAGAGCATCTCGCTGTTTTTTTGTTGTTGTTTTAAAATATT
ATGATTTGGCTACAGACCAGGCAGGGAAAGAGACCCGGTAATTGGAGGGTGAGCCTCGGGGGGGGGGCAGGACGC
·CCCGGTTTCGGCACAGCCCGGTCACTCACGGCCTCGCTCTCGCCTCACCCCGGCTCCTGGGCTTTGATGGTCTGG
TGCCAGTGCCTGTGCCCACTCTGTGCCTGCTGGGAGGAGGCCCAGGCTCTCTGGTGGCCGCCCCTGTGCACCTGG
CCAGGGGAAGCCCGGGGGTCTGGGGCCTCCCTCCGTCTGCGCCCACCTTTGCAGAATAAACTCTCTCCTGGGGTT
TGTCTATCTTTGTTTCTCTCACCTGAGAGAAACGCAGGTGTTCCAGAGGCTTCCTTGCAGACAAAGCACCCCTGC
ACCTCCTATGGCTCAGGATGAGGGAGGCCCCCAGGCCCTTCTGGTTGGTAGTGAGTGTGGACAGCTTCCCAGCTC
TTCGGGTACAACCCTGAGCAGGTCGGGGGACACAGGGCCGAGGCAGGCCTTCGGGGCCCCTTTCGCCTGCTTCCG
GGCAGGGACGAGGCCTGGTGTCCTCGCTCCACCCACCCACGCTGCTGTCACCTGAGGGGAATCTGCTTCTTAGGA
GTGGGTTGAGCTGATAGAGAAAAAACGGCCTTCAGCCCAGGCTGGGAAGCGCCTTCTCCAGGTGCCTCTCCCTCA
CCAGCTCTGCACCCCTCTGGGGAGCCTTCCCCACCTTAGCTGTCTCCTGCCCCAGGGAGGGATGGAGGAGATAAT
TTGCTTATATTAAAAACAAAAAATGGCTGAGGCAGGAGTTTGGGACCAGCCTGGGCTATATAGCAAGACCCCATC
ACTACAAATTTTTTACAAATTAGCTAGGTGTGGTGGTGCGCACCTGTGGTCCCAGCTACTCGGGAGGCTGTGGTG
GGAGGATTGCTTGAGTCCAGGAGGTTGAGGCTGCAGTCAGCTCAGATTGCACCACTGCACTCCAGCCTGGGCAAC
AGAGCGAGACCCTGTCTCCAAAAAAAAAAAAAAAGCAATGTTTATATTATAAAGAGTGTCCTAACAGTCCCCGGG
CTAGAGAGGACTAAGGAAAACAGAGAGAGTGTTACGCAGGAGCAAGCCTTTCATTTCCTTGGTGGGGGAGGGGGG
CGGTTGCCCTGGAGAGGGCCGGGGTCGGGGAGGTTGGGGGGTGTCAGCCAAAACGTGGAGGTGTCCCTCTGCACG
CAGCCCTCGCCCGGCGTGGCGCTGACACTGTATTCTTATGTTGTTTGAAAATGCTATTTATATTGTAAAGAAGCG
GGCGGGTGCCCCTGCTGCCCTTGTCCCTTGGGGGTCACACCCATCCCCTGGTGGGCTCCTGGGCGGCCTGCGCAG
ATGGGCCACAGAAGGGCAGGCCGGAGCTGCACACTCTCCCCACGAAGGTATCTCTGTGTCTTACTCTGTGCAAAG
ACGCGGCAAACCCAGTGCCCTGGTTTTTCCCCACCCGAGATGAAGGATACGCTGTATTTTTTGCCTAATGTCCC
TGCCTCTAGGTTCATAATGAATTAAAGGTTCATGAACGCTGC
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FIGURE 5198

MGSEDHGAQNPSCKIMTFRPTMEEFKDFNKYVAYIESQGAHRAGLAKIIPPKEWKPRQTYDDIDDVVIPAPIQQV
VTGQSGLFTQYNIQKKAMTVGEYRRLANSEKYCTPRHQDFDDLERKYWKNLTFVSPIYGADISGSLYDDDVAQWN
IGSLRTILDMVERECGTIIEGVNTPYLYFGMWKTTFAWHTEDMDLYSINYLHFGEPKSWYAIPPEHGKRLERLAI
GFFPGSSQGCDAFLRHKMTLISPIILKKYGIPFSRITQEAGEFMITFPYGYHAGFNHGFNCAESTNFATLRWIDY
GKVATQCTCRKDMVKISMDVFVRILQPERYELWKQGKDLTVLDHTRPTALTSPELSSWSASRASLKAKLLRRSHR
KRSQPKKPKPEDPKFPGEGTAGAALLEEAGGSVKEEAGPEVDPEEEEEEPQPLPHGREAEGAEEDGRGKLRPTKA
KSERKKKSFGLLPPQLPPPPAHFPSEEALWLPSPLEPPVLGPGPAAMEESPLPAPLNVVPPEVPSEELEAKPRPI
IPMLYVVPRPGKAAFNQEHVSCQQAFEHFAQKGPTWKEPVSPMELTGPEDGAASSGAGRMETKARAGEGQAPSTF
SKLKMEIKKSRRHPLGRPPTRSPLSVVKQEASSDEEASPFSGEEDVSDPDALRPLLSLQWKNRAASFQAERKFNA
AAARTEPYCAICTLFYPYCQALQTEKEAPIASLGKGCPATLPSKSRQKTRPLIPEMCFTSGGENTEPLPANSYIG
DDGTSPLIACGKCCLQVHASCYGIRPELVNEGWTCSRCAAHAWTAECCLCNLRGGALQMTTDRRWIHVICAIAVP
EARFLNVIERHPVDISAIPEQRWKLKCVYCRKRMKKVSGACIQCSYEHCSTSFHVTCAHAAGVLMEPDDWPYVVS
ITCLKHKSGGHAVQLLRAVSLGQVVITKNRNGLYYRCRVIGAASQTCYEVNFDDGSYSDNLYPESITSRDCVQLG
PPSEGELVELRWTDGNLYKAKFISSVTSHIYQVEFEDGSQLTVKRGDIFTLEEELPKRVRSRLSLSTGAPQEPAF
SGEEAKAAKRPRVGTPLATEDSGRSQDYVAFVESLLQVQGRPGAPF

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FIGURE 5199

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TGCGACTGAGTCGGTGGCGAAGACGGGAACGCGACGATGGCGGAGACTCTGCCCGGGTCGGGCGACTCGGGCCCT
GGCACGGCTTCTCTCGGCCCGGGCGTTGCGGAGACTGGGACGAGGCGGCTCAGCGAGCTGCGGGTGATCGATCTG
CGGGCGGAGCTGAAGAAGCGGAACCTGGACACGGGCGGCAACAAGAGCGTCCTGATGGAGCGGCTCAAGAAGGCG
GTTAAAGAAGAGGGGCAAGATCCTGATGAAATTGGCATCGAGTTAGAAGCCACCAGCAAGAAGTCAGCCAAGAGA
TGTGTTAAAGGACTGAAGATGGAGGAGGAAGGCACAGAAGATAATGGCCTGGAAGACGATTCCAGAGACGGGCAG
GAGGACATGGAAGCAAGTCTGGAGAACCTGCAGAATATGGGCATGATGGACATGAGTGTGCTAGACGAAACTGAA
GTGGCGAATAGCAGTGCTCCAGATTTTGGGGAGGATGGCACGGACGGCCTTCTCGATTCCTTTTGTGATAGTAAA
GAATACGTGGCTGCACAGCTGAGACAGCTCCCGGCTCAGCCCCCAGAGCATGCTGTGGATGGGGAAGGATTTAAG
AACACTTTGGAAACTTCATCGTTGAACTTCAAAGTAACTCCGGACATTGAAGAATCCCTTTTGGAGCCAGAAAAT
GAGAAAATACTCGACATTTTGGGGGAAACTTGTAAATCTGAGCCAGTAAAAGAAGAAAGTTCCGAGCTGGAGCAG
CCATTTGCACAGGACACAAGTAGCGTGGGGCCAGACAGAAAGCTTGCGGAGGAAGAGGACCTATTTGACAGCGCC
CATCCGGAAGAGGGTGATTTAGATTTGGCCAGCGAGTCAACAGCACACGCTCAGTCGAGCAAGGCAGACAGCCTG
TTAGCGGTAGTGAAAAGGGAGCCCGCGGAGCAGCCAGGCGATGGCGAGAGGACGGACTGTGAGCCTGTAGGGCTA
GAGCCGGCAGTTGAGCAGAGTAGTGCGGCCTCCGAGCTCGCGGAGGCCTCTAGCGAGGAGCTCGCAGAAGCACCC
ACGGAAGCCCCAAGCCCAGAAGCCAGAGATAGCAAAGAAGACGGGAGGAAGTTTGATTTTGACGCTTGTAATGAA
GTCCCTCCGGCTCCTAAAGAGTCCTCAACCAGTGAGGGCGCTGATCAGAAAATGAGCTCTTTTAAGGAAGAAAAA
GATATAAAGCCAATCATTAAAGATGAAAAAGGTCGGGTCGGCAGCGGTTCTGGTCGGAACCTGTGGGTCAGCGGG
CTGTCCTCCACAACACGCGCTACGGATCTCAAGAACCTTTTCAGCAAGTATGGGAAGGTTGTCGGGGCCAAAGTG
GTAACGAACGCCCGCAGCCCGGGGGCTCGATGCTATGGATTCGTCACCATGTCGACATCTGACGAGGCGACCAAG
TGCATCAGCCATCTCCACAGAACTGAGCTGCATGACGAATGATCTCCGTAGAGAAGGCCAAAAATGAGCCTGCT
GGGAAAAAGCTTTCCGACAGAAAAGAGTGCGAAGTGAAGAAGGAAAAATTATCGAGTGTCGACAGACATCATTCT
GTGGAGATCAAAATTGAAAAAACTGTAATTAAGAAGGAAGAGAAGATTGAGAAGAAGGAGGAAAAAAAGCCTGAA
GACATTAAGAAGGAAGAAAAAGACCAGGATGAGCTGAAACCCGGACCTACAAATCGGTCTAGAGTCACCAAATCA
GGAAGCAGAGGAATGGAGCGGACGGTCGTGATGGATAAATCGAAAGGAGAGCCCGTCATTAGCGTGAAAACCACA
AGCAGGTCCAAAGAGAGAAGCTCCAAGAGTCAGGATCGCAAGTCAGAAAGCAAAGAAAAGAGAGACATCTTGTCG
TTTGATAAAATCAAAGAACAAAGGGAGAGAGAGCGCCAGAGGCAGCGGGAACGGGAGATCCGCGAAACGGAGAGG
CGGCGGGAGCGCGAGCAGCGGGAGCGGGAGCAACGCCTCGAGGCCTTCCATGAGCGGAAGGAGAAGGCCCGGCTA
CAGCGGGAACGCCTGCAGCTCGAGTGCCAGCGCCAGCGGCTGGAGCGGGAGCGCATGGAGCGGGAGCGGCTGGAG
CGCGAGCGCATGCGCGTGGAGCGTGAGCGCAGGAAGGAGCAGGAGCGCATCCACCGCGAGCGCGAGGAGCTGCGG
CGCCAGCAGGAGCAGCTGCGTTACGAGCAGGAGCGGCGGCCCGGGCGGAGGCCCTACGACCTGGACCGACGAGAT
GATGCCTATTGGCCAGAAGGAAAGCGTGTGGCAATGGAGGACCGATATCGTGCAGACTTTCCCCGGCCAGACCAC
CGCTTTCACGACTTCGATCATCGAGACCGGGGCCAGTACCAGGACCACGCCATCGACAGGCGGGAGGGTTCGAGG
CCAATGATGGGAGACCACCGGGATGGGCAGCACTATGGAGATGACCGCCATGGCCACGGAGGACCCCCAGAGCGC
CACGGCCGGGACTCCCGTGATGGCTGGGGGGGCTACGGCTCCGACAAGAGGCTGAGTGAAGGCCGGGGGCTGCCC
CCTCCCCCCAGGGGTGGCCGTGACTGGGGAGAGCACAACCAGCGGCTAGAGGAGCACCAGGCACGCGCCTGGCAG
GGTGCCATGGACGCAGGCGCGGCTAGCCGGGAGCACGCCAGGTGGCAAGGTGGCGAGAGGGGCCTGTCTGGGCCC
TCGGGGCCGGGGCACATGGCAAGCCGCGGTGGAGTGGCGGGGCGAGGCGGCTTTGCACAAGGTGGACATTCCCAG
GGCCACGTGGTGCCAGGTGGCGGACTGGAAGGTGGCGGAGTGGCCAGCCAGGACCGGGGCAGCAGAGTCCCTCAC
CCACACCCTCATCCCCCCCGTACCCCACTTCACCCGCCGCTACTAAGTCCCACTCGCTGTGAGTTTTCGGGTG
GGCAGACGCACTGTTGAATCTGGTAGCCAGGGTTCCCTCGAACTTGGGGGATCTTTTTAAAAGCAAAGTAAATCC
TGCCACCATGTTGTAGCTCAATACAATGTGAACTCACTTTTTTTTTTTTTTTTAATAAATGTGTTCTTGTTCTGC
CATTTTTAAATCAAGGTTTCTGTTAACGAGGCATTCCATTTTCCATTAATAAAGTTTACCATTCGCAAAAAAAAA
ATGTGTTCTTGTTCTGCCATTTTTAAATCAAGGTTTCTGTTAACGAGGCATTCCATTTTCCATTAATAAAGTTTA
CCATTCGC
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FIGURE 5200

MAETLPGSGDSGPGTASLGPGVAETGTRRLSELRVIDLRAELKKRNLDTGGNKSVLMERLKKAVKEEGQDPDEIG
IELEATSKKSAKRCVKGLKMEEEGTEDNGLEDDSRDGQEDMEASLENLQNMGMMDMSVLDETEVANSSAPDFGED
GTDGLLDSFCDSKEYVAAQLRQLPAQPPEHAVDGEGFKNTLETSSLNFKVTPDIEESLLEPENEKILDILGETCK
SEPVKEESSELEQPFAQDTSSVGPDRKLAEEEDLFDSAHPEEGDLDLASESTAHAQSSKADSLLAVVKREPAEQP
GDGERTDCEPVGLEPAVEQSSAASELAEASSEELAEAPTEAPSPEARDSKEDGRKFDFDACNEVPPAPKESSTSE
GADQKMSSFKEEKDIKPIIKDEKGRVGSGSGRNLWVSGLSSTTRATDLKNLFSKYGKVVGAKVVTNARSPGARCY
GFVTMSTSDEATKCISHLHRTELHGRMISVEKAKNEPAGKKLSDRKECEVKKEKLSSVDRHHSVEIKIEKTVIKK
EEKIEKKEEKKPEDIKKEEKDQDELKPGPTNRSRVTKSGSRGMERTVVMDKSKGEPVISVKTTSRSKERSSKSQD
RKSESKEKRDILSFDKIKEQRERERQRQREREIRETERRREREQREREQRLEAFHERKEKARLQRERLQLECQRQ
RLERERMERERLERERMRVERERRKEQERIHREREELRRQQEQLRYEQERRPGRRPYDLDRRDDAYWPEGKRVAM
EDRYRADFPRPDHRFHDFDHRDRGQYQDHAIDRREGSRPMMGDHRDGQHYGDDRHGHGGPPERHGRDSRDGWGGY
GSDKRLSEGRGLPPPPRGGRDWGEHNQRLEEHQARAWQGAMDAGAASREHARWQGGERGLSGPSGPGHMASRGGV
AGRGGFAQGGHSQGHVVPGGGLEGGGVASQDRGSRVPHPHPHPPPYPHFTRRY

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FIGURE 5201

GACCGGGGCGTGCGGAGGG**ATG**TGGCCCGGAATATTGGTAGGGGGGGCCCGGGTGGCGTCATGCAGGTACCCCGC
GCTGGGGCCTCGCCTCGCCGCTCACTTTCCAGCGCAGCGGCCGCCGCAGCGGACACTCCAGAACGGCCTGGCCCT
GCAGCGGTGCCTGCACGCGACGGCGACCCGGGCTCTCCCGCTCATTCCCATCGTGGTGGAGCAGACGGGTCGCGG
CGAGCGCGCCTATGACATCTACTCGCGGCTGCTGCGGGAGCGCATCGTGTGCGTCATGGGCCCGATCGATGACAG
CGTTGCCAGCCTTGTTATCGCACAGCTCCTCTTCCTGCAATCCGAGAGCAACAAGAAGCCCATCCACATGTACAT
CAACAGCCCTGGTGGTGTGGTGACCGCGGGCCTGGCCATCTACGACACGATGCAGTACATCCTCAACCCGATCTG
CACCTGGTGCGTGGGCCAGGCCGCCAGCATGGGCTCCCTGCTTCTCGCCGCCGGCACCCCAGGCATGCGCCACTC
GCTCCCCAACTCCCGTATCATGATCCACCAGCCCTCAGGAGGCGCCCGGGGCCAAGCCACAGACATTGCCATCCA
GGCAGAGGAGATCATGAAGCTCAAGAAGCAGCTCTATAACATCTACGCCAAGCACACCAAACAGAGCCTGCAGGT
GATCGAGTCCGCCATGGAGAGGGACCGCTACATGAGCCCCATGGAGGCCCAGGAGTTTGGCATCTTAGACAAGGT
TCTGGTCCACCCTCCCCAGGACGGTGAGGATGAGCCCACGCTGGTGCAGAAGGAGCCTGTAGAAGCAGCGCCGGC
AGCAGAACCTGTCCCAGCTAGCACC**TGA**GAGCTGGGCCTCCTCTCCAGAATCATGTGGAGGGGCCAGAGGCTTGC
CAGACCCCCAGCTGGGCCCTGCTCACCCCTTGTTGCTGGGCTTGGAGGGGCCTCTTGAGGAACTTTTAATTTGCA
GGGGTGCCCGCTATGGACGGGGCATTCCAGCTGAGACACTGTGATTTTAAATTAAATCTTTGTGGTCTT

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FIGURE 5202

MWPGILVGGARVASCRYPALGPRLAAHFPAQRPPQRTLQNGLALQRCLHATATRALPLIPIVVEQTGRGERAYDI
YSRLLRERIVCVMGPIDDSVASLVIAQLLFLQSESNKKPIHMYINSPGGVVTAGLAIYDTMQYILNPICTWCVGQ
AASMGSLLLAAGTPGMRHSLPNSRIMIHQPSGGARGQATDIAIQAEEIMKLKKQLYNIYAKHTKQSLQVIESAME
RDRYMSPMEAQEFGILDKVLVHPPQDGEDEPTLVQKEPVEAAPAAEPVPAST

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FIGURE 5203

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TGTGGAGCGAAGCCTTGTTCCCGCGTTGAGCCGCCGCCGCCGCCGCCGCCTCCTCAGCTTCAGCCTCCGCGCCAG
GCCCGGCCCCGCCGCGCCATGTCGGACTACAGCACGGGAGGACCCCCGCCCGGGCCGCCGCCGCCCGCCGGCGGG
GGCGGGGGGAGCCGGAGGCGCCGGGGGAGGCCCTCCGCCGGGCCCGCCAGGCGCGGGGGACCGGGGCGGCGGCGGT
CCCTGCGGCGGCGGCCCGGGCGGGGGGTCGGCCGGGGGCCCCTCTCAGCCACCCGGCGGAGGCGGCCCGGGAATC
CGCAAGGACGCTTTCGCCGACGCCGTGCAGCGGGCCCGCCAGATTGCAGCCAAAATTGGAGGCGATGCTGCCACG
ACAGTGAATAACAGCACTCCTGATTTTGGTTTTGGGGGCCAAAAGAGACAGTTGGAAGATGGAGATCAACCGGAG
AGCAAGAAGCTGGCTTCCCAGGGAGACTCAATCAGTTCTCAACTTGGACCCATCCATCCTCCCCCAAGGACTTCA
ATGACAGAAGAGTACAGGGTCCCAGACGGCATGGTGGGCCTGATCATTGGCAGAGGAGGTGAACAAATTAACAAA
ATCCAACAGGATTCAGGCTGCAAAGTACAGATTTCTCCAGACAGCGGTGGCCTACCCGAGCGCAGTGTGTCCTTG
ACAGGAGCCCCAGAATCTGTCCAGAAAGCCAAGATGATGCTGGATGACATTGTGTCTCGGGGTCGTGGGGGCCCC
CCAGGACAGTTCCACGACAACGCCAACGGGGGCCAGAACGGCACCGTGCAGGAGATCATGATCCCCGCGGGCAAG
GCCGGCCTGGTCATTGGCAAGGGCGGGGAGACCATTAAGCAGCTGCAGGAACGCGCTGGAGTGAAGATGATCTTA
ATTCAGGACGGATCTCAGAATACGAATGTGGACAAACCTCTCCGCATCATTGGGGATCCTTACAAAGTGCAGCAA
GCCTGTGAGATGGTGATGGACATCCTCCGGGAACGTGACCAAGGCGGCTTTGGGGACCGGAATGAGTACGGATCT
CGGATTGGCGGAGGCATCGATGTGCCAGTGCCCAGGCATTCTGTTGGCGTGGTCATTGGCCGGAGTGGAGAGATG
ATCAAGAAGATCCAGAATGATGCTGGCGTGCGGATACAGTTCAAGCAAGATGACGGGACAGGGCCCGAGAAGATT
GCTCATATAATGGGGCCCCCAGACAGGTGCGAGCACGCAGCCCGGATCATCAACGACCTCCTCCAGAGCCTCAGG
AGTGGTCCCCCAGGTCCTCCAGGGGGTCCAGGCATGCCCCCGGGGGGCCGAGGCCGAGGAAGAGGCCAAGGCAAT
TGGGGTCCCCCTGGCGGGGAGATGACCTTCTCCATCCCCACTCACAAGTGTGGGCTGGTCATCGGCCGAGGTGGC
GAGAATGTGAAAGCCATAAACCAGCAGACGGGAGCCTTCGTAGAGATCTCCCGGCAGCTGCCACCCAACGGGGAC
CCCAACTTCAAGTTGTTCATCATCCGGGGTTCACCCCAGCAGATTGACCACGCCAAGCAGCTTATCGAGGAAAAG
ATCGAGGGTCCTCTCTGCCCAGTTGGACCAGGCCCAGGTGGCCCAGGCCCTGCTGGCCCAATGGGGCCCTTCAAT
CCTGGGCCCTTCAACCAGGGGCCACCCGGGGCTCCCCCACATGCCGGGGGGGCCCCCTCCTCACCAGTACCCACCC
CAGGGCTGGGGCAATACCTACCCCCAGTGGCAGCCGCCTGCTCCTCATGACCCAAGCAAAGCAGCTGCAGCGGCC
GCGGACCCCAACGCCGCGTGGGCCGCCTACTACTCACACTACTACCAGCAGCCCCCGGGCCCCGTCCCCGGCCCC
GCACCGGCCCCTGCGGCCCCACCGGCTCAGGGTGAGCCCCCTCAGCCCCCACCCACCGGCCAGTCGGACTACACT
AAGGCCTGGGAAGAGTATTACAAAAAGATCGGCCAGCAGCCCCAGCAGCCCGGAGCGCCCCCACAGCAGGACTAC
ACGAAGGCTTGGGAGGAGTACTACAAGAAGCAAGCGCAAGTGGCCACCGGAGGGGGTCCAGGAGCTCCCCCAGGC
TCCCAGCCAGACTACAGTGCCGCCTGGGCGGAATATTACAGACAGCAGGCCGCTTACTACGGACAGACCCCAGGT
CCTGGCGGCCCCCAGCCGCCGCCCACGCAGCAGGGACAGCAGCAGGCTCAATGAATCGAATGAATGTGAACTTCT
TCATCTGTGAAAAATCTTTTTTTTTTTCCATTTTGTTCTGTTTGGGGGCTTCTGTTTTGTTTGGCGAGAGAGCGAT
GGTGCCGTGGGGGAGTACTGGGGAGCCCTCGCGGCAAGCAGGGTGGGGGGGACTTGGGGGCATGCCGGGCCCTCAC
TCTCTCGCCTGTTCTGTGTCTCACATGCTTTTTCTTTCAAAATTGGGATCCTTCCATGTTGAGCCAGCCAGAGAA
GATAGCGAGATCTAAATCTCTGCCAAAAAAAAAAAAAAACTTAAAAATTAAAAACACAAAGAGCAAAGCAGAACTT
ATAAAATTATATATATATATATTAAAAAGTCTCTATTCTTCACCCCCCAGCCTTCCTGAACCTGCCTCTCTGAGG
ATAAAGCAATTCATTTTCTCCCACCCTCGGCCCTCTTGTTTTTAAAATAAACTTTTAAAAAGGAAAAAAAAAAGT
CACTCTTGCTATTTCTTTTTTTTTAGTTAGAGGTGGAACATTCCTTGGACCAGGTGTTGTATTGCAGGACCCCTTC
CCCCAGCAGCCAAGCCCCCTCTTCTCTCCCTCCCGCCCTGGCTCAGCTCCCGCGGCCCCGCCCGTCCCCCTCCC
AGGACTGGTCTGTTGTCTTTTCATCTGTTCAAGAGGAGATTGAAACTGAAAACAAAATGAGAACAACAAAAAAAA
TTGTATGGCAGTTTTTACTTTTTATCGCTCGTTTTTAACTTCACAAATAAATGATAACAAAACCTCAAAAAAAAA
AAAAAAAA
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FIGURE 5204

MSDYSTGGPPPGPPPPAGGGGGAGGAGGGPPPGPPGAGDRGGGGPCGGGPGGGSAGGPSQPPGGGGPGIRKDAFA
DAVQRARQIAAKIGGDAATTVNNSTPDFGFGGQKRQLEDGDQPESKKLASQGDSISSQLGPIHPPPRTSMTEEYR
VPDGMVGLIIGRGGEQINKIQQDSGCKVQISPDSGGLPERSVSLTGAPESVQKAKMMLDDIVSRGRGGPPGQFHD
NANGGQNGTVQEIMIPAGKAGLVIGKGGETIKQLQERAGVKMILIQDGSQNTNVDKPLRIIGDPYKVQQACEMVM
DILRERDQGGFGDRNEYGSRIGGGIDVPVPRHSVGVVIGRSGEMIKKIQNDAGVRIQFKQDDGTGPEKIAHIMGP
PDRCEHAARIINDLLQSLRSGPPGPPGGPGMPPGGRGRGRGQGNWGPPGGEMTFSIPTHKCGLVIGRGGENVKAI
NQQTGAFVEISRQLPPNGDPNFKLFIIRGSPQQIDHAKQLIEEKIEGPLCPVGPGPGGPGPAGPMGPFNPGPFNQ
GPPGAPPHAGGPPPHQYPPQGWGNTYPQWQPPAPHDPSKAAAAAADPNAAWAAYYSHYYQQPPGPVPGPAPAPAA
PPAQGEPPQPPPTGQSDYTKAWEEYYKKIGQQPQQPGAPPQQDYTKAWEEYYKKQAQVATGGGPGAPPGSQPDYS
AAWAEYYRQQAAYYGQTPGPGGPQPPPTQQGQQQAQ

FIGURE 5205A

CTCCTCCCCATCCTCTCCCTCTGTCCCTCTGTCCCTCTGACCCTGCACTGTCCCAGCACCATGGGACCCACCTCA
GGTCCCAGCCTGCTGCTCCTGCTACTAACCCACCTCCCCCTGGCTCTGGGGAGTCCCATGTACTCTATCATCACC
CCCAACATCTTGCGGCTGGAGAGCGAGGAGACCATGGTGCTGGAGGCCCACGACGCGCAAGGGGATGTTCCAGTC
ACTGTTACTGTCCACGACTTCCCAGGCAAAAAACTAGTGCTGTCCAGTGAGAAGACTGTGCTGACCCCTGCCACC
AACCACATGGGCAACGTCACCTTCACGATCCCAGCCAACAGGGAGTTCAAGTCAGAAAAGGGGCGCAACAAGTTC
GTGACCGTGCAGGCCACCTTCGGGACCCAAGTGGTGGAGAAGGTGGTGCTGGTCAGCCTGCAGAGCGGGTACCTC
TTCATCCAGACAGACAAGACCATCTACACCCCTGGCTCCACAGTTCTCTATCGGATCTTCACCGTCAACCACAAG
CTGCTACCCGTGGGCCGGACGGTCATGGTCAACATTGAGAACCCGGAAGGCATCCCGGTCAAGCAGGACTCCTTG
TCTTCTCAGAACCAGCTTGGCGTCTTGCCCTTGTCTTGGGACATTCCGGAACTCGTCAACATGGGCCAGTGGAAG
ATCCGAGCCTACTATGAAAACTCACCACAGCAGGTCTTCTCCACTGAGTTTGAGGTGAAGGAGTACGTGCTGCCC
AGTTTCGAGGTCATAGTGGAGCCTACAGAGAAATTCTACTACATCTATAACGAGAAGGGCCTGGAGGTCACCATC
ACCGCCAGGTTCCTCTACGGGAAGAAAGTGGAGGGAACTGCCTTTGTCATCTTCGGGATCCAGGATGGCGAACAG
AGGATTTCCCTGCCTGAATCCCTCAAGCGCATTCCGATTGAGGATGGCTCGGGGGAGGTTGTGCTGAGCCGGAAG
GTACTGCTGGACGGGGTGCAGAACCCCCGAGCAGAAGACCTGGTGGGGAAGTCTTTGTACGTGTCTGCCACCGTC
ATCTTGCACTCAGGCAGTGACATGGTGCAGGCAGAGCGCAGCGGGATCCCCATCGTGACCTCTCCCTACCAGATC
CACTTCACCAAGACACCCAAGTACTTCAAACCAGGAATGCCCTTTGACCTCATGGTGTTCGTGACGAACCCTGAT
GGCTCTCCAGCCTACCGAGTCCCCGTGGCAGTCCAGGGCGAGGACACTGTGCAGTCTCTAACCCAGGGAGATGGC
GTGGCCAAACTCAGCATCAACACACACCCCAGCCAGAAGCCCTTGAGCATCACGGTGCGCACGAAGAAGCAGGAG
CTCTCGGAGGCAGAGCAGGCTACCAGGACCATGCAGGCTCTGCCCTACAGCACCGTGGGCAACTCCAACAATTAC
CTGCATCTCTCAGTGCTACGTACAGAGCTCAGACCCGGGGAGACCCTCAACGTCAACTTCCTCCTGCGAATGGAC
CGCGCCCACGAGGCCAAGATCCGCTACTACACCTACCTGATCATGAACAAGGGCAGGCTGTTGAAGGCGGGACGC
CAGGTGCGAGAGCCCGGCCAGGACCTGGTGGTGCTGCCCCTGTCCATCACCACCGACTTCATCCCTTCCTTCCGC
CTGGTGGCGTACTACACGCTGATCGGTGCCAGCGGCCAGAGGGAGGTGGTGGCCGACTCCGTGTGGGTGGACGTC
AAGGACTCCTGCGTGGGCTCGCTGGTGGTAAAAAGCGGCCAGTCAGAAGACCGGCAGCCTGTACCTGGGCAGCAG
ATGACCCTGAAGATAGAGGGTGACCACGGGGCCCGGGTGGTACTGGTGGCCGTGGACAAGGGCGTGTTCGTGCTG
AATAAGAAGAACAAACTGACGCAGAGTAAGATCTGGGACGTGGTGGAGAAGGCAGACATCGGCTGCACCCCGGGC
AGTGGGAAGGATTACGCCGGTGTCTTCTCCGACGCAGGGCTGACCTTCACGAGCAGCAGTGGCCAGCAGACCGCC
CAGAGGGCAGAACTTCAGTGCCCGCAGCCAGCCGCCCGCCGACGCCGTTCCGTGCAGCTCACGGAGAAGCGAATG
GACAAAGTCGGCAAGTACCCCAAGGAGCTGCGCAAGTGCTGCGAGGACGGCATGCGGGAGAACCCCATGAGGTTC
TCGTGCCAGCGCCGGACCCGTTTCATCTCCCTGGGCGAGGCGTGCAAGAAGGTCTTCCTGGACTGCTGCAACTAC
ATCACAGAGCTGCGGCGGCAGCACGCGCGGGCCAGCCACCTGGGCCTGGCCAGGAGTAACCTGGATGAGGACATC
ATTGCAGAAGAGAACATCGTTTCCCGAAGTGAGTTCCCAGAGAGCTGGCTGTGGAACGTTGAGGACTTGAAAGAG
CCACCGAAAAATGGAATCTCTACGAAGCTCATGAATATATTTTTGAAAGACTCCATCACCACGTGGGAGATTCTG
GCTGTGAGCATGTCGGACAAGAAAGGGATCTGTGTGGCAGACCCCTTCGAGGTCACAGTAATGCAGGACTTCTTC
ATCGACCTGCGGCTACCCTACTCTGTTGTTCGAAACGAGCAGGTGGAAATCCGAGCCGTTCTCTACAATTACCGG
CAGAACCAAGAGCTCAAGGTGAGGGTGGAACTACTCCACAATCCAGCCTTCTGCAGCCTGGCCACCACCAAGAGG
CGTCACCAGCAGACCGTAACCATCCCCCCCAAGTCCTCGTTGTCCGTTCCATATGTCATCGTGCCGCTAAAGACC
GGCCTGCAGGAAGTGGAAGTCAAGGCTGCTGTCTACCATCATTTCATCAGTGACGGTGTCAGGAAGTCCCTGAAG
GTCGTGCCGGAAGGAATCAGAATGAACAAAACTGTGGCTGTTCGCACCCTGGATCCAGAACGCCTGGGCCGTGAA
GGAGTGCAGAAGAGGACATCCCACCTGCAGACCTCAGTGACCAAGTCCCGGACACCGAGTCTGAGACCAGAATT
CTCCTGCAAGGGACCCCAGTGGCCCAGATGACAGAGGATGCCGTCGACGCGGAACGGCTGAAGCACCTCATTGTG
ACCCCCTCGGGCTGCGGGGAACAGAACATGATCGGCATGACGCCCACGGTCATCGCTGTGCATTACCTGGATGAA
ACGGAGCAGTGGGAGAAGTTCGGCCTAGAGAAGCGGCAGGGGGCCTTGGAGCTCATCAAGAAGGGGTACACCCAG
CAGCTGGCCTTCAGACAACCCAGCTCTGCCTTTGCGGCCTTCGTGAAACGGGCACCCAGCACCTGGCTGACCGCC
TACGTGGTCAAGGTCTTCTCTCTGGCTGTCAACCTCATCGCCATCGACTCCCAAGTCCTCTGCGGGGCTGTTAAA
TGGCTGATCCTGGAGAAGCAGAAGCCCGACGGGGTCTTCCAGGAGGATGCGCCCGTGATACACCAAGAAATGATT
GGTGGATTACGGAACAACAACGAGAAAGACATGGCCCTCACGGCCTTTGTTCTCATCTCGCTGCAGGAGGCTAAA
GATATTTGCGAGGAGCAGGTCAACAGCCTGCCAGGCAGCATCACTAAAGCAGGAGACTTCCTTGAAGCCAACTAC

5649/6881
FIGURE 5205B

ATGAACCTACAGAGATCCTACACTGTGGCCATTGCTGGCTATGCTCTGGCCCAGATGGGCAGGCTGAAGGGGCCT
CTTCTTAACAAATTTCTGACCACAGCCAAAGATAAGAACCGCTGGGAGGACCCTGGTAAGCAGCTCTACAACGTG
GAGGCCACATCCTATGCCCTCTTGGCCCTACTGCAGCTAAAAGACTTTGACTTTGTGCCTCCCGTCGTGCGTTGG
CTCAATGAACAGAGATACTACGGTGGTGGCTATGGCTCTACCCAGGCCACCTTCATGGTGTTCCAAGCCTTGGCT
CAATACCAAAAGGACGCCCCTGACCACCAGGAACTGAACCTTGATGTGTCCCTCCAACTGCCCAGCCGCAGCTCC
AAGATCACCCACCGTATCCACTGGGAATCTGCCAGCCTCCTGCGATCAGAAGAGACCAAGGAAAATGAGGGTTTC
ACAGTCACAGCTGAAGGAAAAGGCCAAGGCACCTTGTCGGTGGTGACAATGTACCATGCTAAGGCCAAAGATCAA
CTCACCTGTAATAAATTCGACCTCAAGGTCACCATAAAACCAGCACCGGAAACAGAAAGAGGCCTCAGGATGCC
AAGAACACTATGATCCTTGAGATCTGTACCAGGTACCGGGGAGACCAGGATGCCACTATGTCTATATTGGACATA
TCCATGATGACTGGCTTTGCTCCAGACACAGATGACCTGAAGCAGCTGGCCAATGGTGTTGACAGATACATCTCC
AAGTATGAGCTGGACAAAGCCTTCTCCGATAGGAACACCCTCATCATCTACCTGGACAAGGTCTCACACTCTGAG
GATGACTGTCTAGCTTTCAAAGTTCACCAATACTTTAATGTAGAGCTTATCCAGCCTGGAGCAGTCAAGGTCTAC
GCCTATTACAACCTGGAGGAAAGCTGTACCCGGTTCTACCATCCGGAAAAGGAGGATGGAAAGCTGAACAAGCTC
TGCCGTGATGAACTGTGCCGCTGTGCTGAGGAGAATTGCTTCATACAAAAGTCGGATGACAAGGTCACCCTGGAA
GAACGGCTGGACAAGGCCTGTGAGCCAGGAGTGGACTATGTGTACAAGACCCGACTGGTCAAGGTTCAGCTGTCC
AATGACTTTGACGAGTACATCATGGCCATTGAGCAGACCATCAAGTCAGGCTCGGATGAGGTGCAGGTTGGACAG
CAGCGCACGTTCATCAGCCCCATCAAGTGCAGAGAAGCCCTGAAGCTGGAGGAGAAGAAACACTACCTCATGTGG
GGTCTCTCCTCCGATTTCTGGGGAGAGAAGCCCAACCTCAGCTACATCATCGGGAAGGACACTTGGGTGGAGCAC
TGGCCCGAGGAGGACGAATGCCAAGACGAAGAGAACCAGAAACAATGCCAGGACCTCGGCGCCTTCACCGAGAGC
ATGGTTGTCTTTGGGTGCCCCAACTGACCACACCCCCATTCC

5650/6881
FIGURE 5206

GGCCGCGGTGGTGGCTGCGGCGGCGGCGGCGGGAGCAGC**ATG**GATTGGGGCACTGAGCTGTGGGATCAGTTCGAG
GTGCTCGAGCGCCACACGCAGTGGGGGCTGGACCTGTTGGACAGATATGTAAAGTTCGTGAAAGAACGCACCGAA
GTGGAACAGGCTTACGCCAAACAACTGCGGAGCCTGGTGAAAAAATATCTGCCCAAGAGACCTGCCAAGGATGAT
CCTGAGTCCAAATTCAGCCAGCAACAGTCCTTCGTACAGATTCTCCAGGAGGTGAATGACTTTGCAGGCCAGCGG
GAGCTGGTGGCTGAGAACCTCAGTGTCCGTGTATGTCTTGAGCTGACCAAGTACTCACAAGAGATGAAACAGGAG
AGGAAGATGCACTTCCAAGAAGGGCGGCGGGCCCAGCAGCAGCTGGAAAATGGCTTTAAACAGCTGGAGAATAGT
AAGCGTAAATTTGAGCGGGACTGCCGGGAGGCAGAGAAGGCAGCCCAGACTGCTGAACGGCTAGACCAGGATATC
AACGCCACCAAGGCTGATGTGGAGAAGGCCAAGCAGCAAGCCCACCTTCGGAGTCACATGGCCGAAGAAAGCAAA
AACGAATATGCGGCTCAACTGCAGCGCTTCAACCGAGACCAAGCCCACTTCTATTTTTCACAGATGCCCCAGATA
TTCGATAAGCTCCAAGACATGGATGAACGCAGGGCCACCCGCCTGGGTGCCGGGTATGGGCTCCTGTCGGAGGCC
GAGCTGGAGGTGGTGCCCATAATAGCCAAGTGCTTGGAGGGCATGAAGGTGGCTGCAAATGCTGTGGATCCCAAG
AACGACTCCCACGTCCTTATAGAGCTGCACAAGTCAGGTTTTGCCCGCCCGGGCGACGTGGAATTCGAGGACTTC
AGCCAGCCCATGAACCGTGCACCCTCCGACAGCAGTCTGGGCACCCCCTCGGATGGACGGCCTGAACTCCGAGGC
CCGGGTCGCAGCCGCACCAAGCGCTGGCCTTTTGGCAAGAAGAACAAGACAGTGGTGACCGAGGATTTTAGCCAC
TTGCCCCCAGAGCAGCAGCGAAAACGGCTTCAACAGCAGTTGGAAGAACGCAGTCGTGAACTTCAGAAGGAGGTT
GACCAGAGGGAAGCCCTAAAGAAAATGAAGGATGTCTATGAGAAGACACCTCAGATGGGGGACCCCGCCAGCTTG
GAGCCCCAGATCGCTGAAACCCTGAGCAACATTGAACGGCTGAAATTGGAAGTGCAGAAGTATGAGGCGTGGCTG
GCAGAAGCTGAAAGTCGAGTCCTTAGCAACCGGGGAGACAGCCTGAGCCGGCACGCCCGGCCTCCCGACCCCCCC
GCTAGCGCCCCGCCAGACAGCAGCAGCAACAGCGCATCACAGGACACCAAGGAGAGCTCTGAAGAGCCTCCCTCA
GAAGAGAGCCAGGACACCCCCATTTACACGGAGTTTGATGAGGATTTCGAGGAGGAACCCACATCCCCCATAGGT
CACTGTGTGGCCATCTACCACTTTGAAGGGTCCAGCGAGGGCACTATCTCTATGGCCGAGGGTGAAGACCTCAGT
CTTATGGAAGAAGACAAAGGGGACGGCTGGACCCGGGTCAGGCGGAAAGAGGGAGGCGAGGGCTACGTGCCCACC
TCCTACCTCCGAGTCACGCTCAAT**TGA**ACCCTGCCAGAGACGGGAAGAGGGGGGCTGTCGGCTGCTGCTTCTGGG
CCACGGGGAGCCCCAGGACCTATGCACTTTATTTCTGACCCCGTGGCTTCGGCTGAGACCTGTGTAACCTGCTGC
CCCCTCCACCCCCAACCCAGTCCTACCTGTCACACCGGACGGACCCGCTGTGCCTTCTACCATCGTTCCACCATT
GATGTACATACTCATGTTTTACATCTTTTCTTTCTGCGCTCGGCTCCGGCCATTTTGTTTATACAAAAATGGGT
TTTTTTTTTTTCTTTAATATATTTCAAGAGATTTTTTTTTTTTTTTTTT

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FIGURE 5207

MDWGTELWDQFEVLERHTQWGLDLLDRYVKFVKERTEVEQAYAKQLRSLVKKYLPKRPAKDDPESKFSQQQSFVQ
ILQEVNDFAGQRELVAENLSVRVCLELTKYSQEMKQERKMHFQEGRRAQQQLENGFKQLENSKRKFERDCREAEK
AAQTAERLDQDINATKADVEKAKQQAHLRSHMAEESKNEYAAQLQRFNRDQAHFYFSQMPQIFDKLQDMDERRAT
RLGAGYGLLSEAELEVVPIIAKCLEGMKVAANAVDPKNDSHVLIELHKSGFARPGDVEFEDFSQPMNRAPSDSSL
GTPSDGRPELRGPGRSRTKRWPFGKKNKTVVTEDFSHLPPEQQRKRLQQQLEERSRELQKEVDQREALKKMKDVY
EKTPQMGDPASLEPQIAETLSNIERLKLEVQKYEAWLAEAESRVLSNRGDSLSRHARPPDPPASAPPDSSSNSAS
QDTKESSEEPPSEESQDTPIYTEFDEDFEEEPTSPIGHCVAIYHFEGSSEGTISMAEGEDLSLMEEDKGDGWTRV
RRKEGGEGYVPTSYLRVTLN

5652/6881
FIGURE 5208

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CGGGGGTGACAGCAGCCCGGAGCCGCGGAGCCTCAGCTTCCGCCTGGACCCAGCCTCGTGGGAGCCCCGCGGGTC
CTGCCCAGATGTGGAAGACTGAGGCCTGTTGAAAGTGCAGAGCTCAGCCCTGGCACCCTCTGTTCCCAAGAGCTC
CATGCAGGTGCCACAGGATGGAGAAGACCTTGCTGGCCAACCCTGGTACCACGGCCTCCTGTCCCGCCAGAAGGC
TGAAGCTCTTCTTCAGCAAGATGGCGACTTCCTGGTTCGCGCCTCTGGGTCCCGTGGGGGCAACCCCGTGATCTC
CTGCCGCTGGCGGGGCTCAGCCCTCCATTTTGAGGTGTTCCGTGTGGCCCTGCGTCCCCGGCCAGGCCGACCCAC
AGCCCTCTTTCAACTGGAGGATGAGCAATTCCCCAGCATACCGGCTCTGGTTCACAGTTATATGACAGGCAGGCG
CCCACTGTCCCAGGCCACAGGGGCTGTGGTCTCCAGGCCTGTGACTTGGCAGGGGCCTCTGCGACGCAGCTTTAG
CGAGGACACCCTGATGGATGGCCCAGCTCGGATAGAGCCTCTCAGGGCAAGGAAGTGGAGCAACAGTCAGCCTGC
AGATTTGGCACATATGGGGCGGTCAAGAGAAGACCCCGCTGGGATGGAAGCCTCCACCATGCCCATATCTGCCTT
GCCCCGAACGAGCAGTGACCCGGTGTTGCTGAAGGCCCCTGCTCCCCTGGGAACTGTTGCCGACAGTCTCAGGGC
CTCCGATGGGCAGCTTCAAGCCAAGGCACCAACGAAGCCCCCCGGACACCCTCCTTCGAACTGCCTGATGCCTC
TGAACGTCCCCCGACGTACTGCGAGCTGGTGCCCCGAGTGCCCAGTGTCCAGGGAACATCCCCGAGCCAAAGCTG
CCCAGAGCCAGAGGCCCCATGGTGGGAGGCCGAGGAGGATGAGGAGGAAGAGAATAGATGTTTTACAAGACCACA
GGCTGAGATCTCTTTCTGCCCCCATGATGCCCCCTCCTGCCTGCTGGGCCCCCAGAATCGGCCCCTGGAACCCCA
AGTCCTGCATACCCTCCGTGGCCTGTTCCTGGAGCACCATCCTGGGAGCACCGCCCTTCACCTGCTATTGGTAGA
CTGCCAGGCCACAGGCCTCCTGGGAGTGACCAGAGATCAGCGGGGCAACATGGGAGTCTCATCTGGCCTGGAGCT
GCTCACTCTTCCCCATGGACACCACTTGAGGTTGGAACTGCTGGAGAGGCATCAGACACTGGCGCTGGCCGGGGC
GCTGGCGGTGCTGGGCTGCTCGGGGCCGCTGGAGGAGCGCGCAGCCGCACTGAGGGGACTGGTAGAGCTGGCGCT
GGCGCTGCGGCCAGGGGCGGCGGGGGACCTGCCCGGGCTGGCTGCAGTCATGGGCGCCCTGCTCATGCCCCAGGT
GTCCCGGTTGGAGCACACGTGGCGCCAGCTCCGAAGGAGCCACACGGAGGCTGCGCTGGCCTTTGAGCAGGAGCT
GAAGCCGCTGATGCGGGCTCTGGATGAGGGCGCTGGACCCTGCGACCCCGGCGAGGTGGCGCTGCCGCACGTGGC
ACCCATGGTTCGCCTACTGGAGGGCGAGGAAGTCGCGGGGCCGCTGGACGAGAGCTGTGAGCGGCTGTTGCGCAC
CCTGCACGGGGCGCGTCACATGGTCCGGGACGCACCCAAATTCCGCAAGGTGGCAGCCCAGCGCCTGCGAGGATT
CCGGCCTAACCCGGAGCTGAGGGAGGCCCTGACCACCGGCTTCGTGCGGAGGCTGCTCTGGGGTAGCCGGGGCGC
GGGAGCTCCGCGCGCTGAACGCTTTGAGAAGTTCCAGCGCGTCCTCGGCGTCCTGTCGCAGCGCCTGGAGCCTGA
CCGCTGAGAGCGCAGACACCCTTCTTCACACCCGGGACCCCCAGGTTTTTGCGAACCCCAGAAGAGACCAAAGGA
GTCGTCCCAGGCTCCTCGCGCCTCAGGTGGAATCCTGCCCTGTGCCTCACAGAAGAGGTGGGGACCGCAGTCAGG
GTCACCTGGACCATGGTGAACATGTGACCTGCAGATCTGGCATCAGAGGCCAGAGTTCAAATGTGACTCCACCTC
TTAAAAGCCGTGATTTCTAGCAGTTGACTTCACCTCTGTGTCGGCCTTTAACAAAATCATAGCCATACAGCAGCT
CAGGCCTGTAATCTCAGCACTTTGGGAGGCCGAGGCGGAAGGAAGGCTTGAGGCCAGGAGTTCAAGACCAGCCAG
GGCAACATGGTGAGACCTCATCTCTACAAAAACTGAAAAATAAAAAACTTTTAAAAAATGTAAAAAAAAAAAAAA
AA
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5653/6881
FIGURE 5209

MQVPQDGEDLAGQPWYHGLLSRQKAEALLQQDGDFLVRASGSRGGNPVISCRWRGSALHFEVFRVALRPRPGRPT
ALFQLEDEQFPSIPALVHSYMTGRRPLSQATGAVVSRPVTWQGPLRRSFSEDTLMDGPARIEPLRARKWSNSQPA
DLAHMGRSREDPAGMEASTMPISALPRTSSDPVLLKAPAPLGTVADSLRASDGQLQAKAPTKPPRTPSFELPDAS
ERPPTYCELVPRVPSVQGTSPSQSCPEPEAPWWEAEEDEEEENRCFTRPQAEISFCPHDAPSCLLGPQNRPLEPQ
VLHTLRGLFLEHHPGSTALHLLLVDCQATGLLGVTRDQRGNMGVSSGLELLTLPHGHHLRLELLERHQTLALAGA
LAVLGCSGPLEERAAALRGLVELALALRPGAAGDLPGLAAVMGALLMPQVSRLEHTWRQLRRSHTEAALAFEQEL
KPLMRALDEGAGPCDPGEVALPHVAPMVRLLEGEEVAGPLDESCERLLRTLHGARHMVRDAPKFRKVAAQRLRGF
RPNPELREALTTGFVRRLLWGSRGAGAPRAERFEKFQRVLGVLSQRLEPDR

5654/6881
FIGURE 5210

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AGGGAAGACACGCGTGACCCGGAAGGTCTTCCCGCCACACTCCAGAGCGGATGTGAGGGGCGCCGATGGCGGAGG
GAACGGCGGAGGCTCCTCTAGAGAATGGTGGTGGTGGCGACTCGGGAGCCGGAGCTTTGGAACGAGGAGTGGCGC
CCATTAAGCGTCAATACCTCACCACCAAGGAGCAGTTTCACCAATTCCTGGAAGCCAAAGGGCAGGAGAAGACTT
GCCGGGAAACCGAGCTGGACATCCGTGGCAAACTTTACCTGGCCCCCCTCACCACGTGTGGGAACCTGCCCTTCC
GACGGATCTGCAAGCGCTTCGGGGCGGATGTGACATGTGGAGAGATGGCCGTCTGCACCAACCTGCTGCAGGGCC
AGATGTCCGAGTGGGCCCTACTCAAACGCCACCAGTGTGAGGACATCTTTGGCGTCCAGCTGGAGGGCGCCTTCC
CCGACACCATGACCAAGTGTGCCGAGCTGCTGAGCCGCACCGTGGAGGTGGACTTTGTGGACATCAACGTCGGCT
GCCCCATCGACCTCGTGTACAAGAAGGGTGGGGGCTGTGCCCTCATGAATCGCTCCACCAAGTTCCAGCAGATCG
TCCGTGGCATGAACCAGGTGCTGGATGTGCCGCTGACTGTGAAGATCCGCACAGGCGTCCAGGAGCGTGTGAACC
TGGCGCACCGCCTGCTGCCCGAGCTGCGGGACTGGGGCGTGGCACTCGTCACGCTCCACGGCCGCTCTCGGGAGC
AGCGCTACACCAAGCTAGCCGACTGGCAGTACATCGAGGAGTGCGTGCAGGCCGCCAGCCCCATGCCCCTGTTCG
GAAATGGGGACATCTTGTCATTTGAGGATGCCAACCGCGCCATGCAGACTGGTGTCACCGGGATCATGATTGCCC
GTGGCGCCCTGCTCAAGCCGTGGCTCTTCACGGAGATCAAGGAGCAGCGGCACTGGGACATCTCGTCGTCCGAGC
GCCTGGACATCCTGCGGGACTTCACCAACTACGGCCTGGAGCACTGGGGCTCGGACACGCAGGGCGTGGAGAAGA
CCCGGCGCTTTCTGCTCGAGTGGCTGTCCTTCCTGTGCCGGTACGTGCCCGTGGGGCTGCTGGAGCGGCTCCCAC
AGAGGATCAACGAGCGGCCGCCCTACTACCTGGGCCGCGACTACCTGGAGACGCTGATGGCCAGCCAGAAGGCAG
CCGACTGGATCCGCATCAGCGAGATGCTCCTTGGGCCAGTGCCCCCCAGCTTCGCCTTCTTGCCGAAGCACAAGG
CCAACGCGTACAAGTAGCCTCAGGCTTTCCCAGGGGCACCCTGGGGCGAGGAGAGTACAATAAATTTTATTCTTT
T
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5655/6881
FIGURE 5211

MAEGTAEAPLENGGGGDSGAGALERGVAPIKRQYLTTKEQFHQFLEAKGQEKTCRETEVGDPAGNELAEPEAKRI
RLEDGQTADGQTEEAAEPGEQLQTQKRARGQNKGRPHVKPTNYDKNRLCPSLIQESAAKCFFGDRCRFLHDVGRY
LETKPADLGPRCVLFETFGRCPYGVTCRFAGAHLRPEGQNLVQEELAARGTQPPSIRNGLDKALQQQLRKREVRF
ERAEQALRRFSQGPTPAAAVPEGTAAEGAPRQENCGAQQVPAGPGTSTPPSSPVRTCGPLTDEDVVRLRPCEKKR
LDIRGKLYLAPLTTCGNLPFRRICKRFGADVTCGEMAVCTNLLQGQMSEWALLKRHQCEDIFGVQLEGAFPDTMT
KCAELLSRTVEVDFVDINVGCPIDLVYKKGGGCALMNRSTKFQQIVRGMNQVLDVPLTVKIRTGVQERVNLAHRL
LPELRDWGVALVTLHGRSREQRYTKLADWQYIEECVQAASPMPLFGNGDILSFEDANRAMQTGVTGIMIARGALL
KPWLFTEIKEQRHWDISSSERLDILRDFTNYGLEHWGSDTQGVEKTRRFLLEWLSFLCRYVPVGLLERLPQRINE
RPPYYLGRDYLETLMASQKAADWIRISEMLLGPVPPSFAFLPKHKANAYK

5656/6881
FIGURE 5212

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CGGGTTTTCCAATCTCTGTGTAGCTAGCAGTTCTCTTCGTGTTAGTGTGGCAGCCGTGCCAGTTCCACATTTGTG
ATTGCTTTATTTCCCTGGTAATTAAACCTTGTGCCATTCTATTCCTGTTAAATCCGTAGAAAATGAGAAAATACT
CGACATTTTGGGGGAAACTTGTAAATCTGAGCCAGTAAAAGAAGAAAGTTCCGAGCTGGAGCAGCCATTTGCACA
GGACACAAGTAGCGTGGGGCCAGACAGAAAGCTTGCGGAGGAAGAGGACCTATTTGACAGCGCCCATCCGGAAGA
GGGTGATTTAGATTTGGCCAGCGAGTCAACAGCACACGCTCAGTCGAGCAAGGCAGACAGCCTGTTAGCGGTAGT
GAAAAGGGAGCCCGCGGAGCAGCCAGGCGATGGCGAGAGGACGGACTGTGAGCCTGTAGGGCTAGAGCCGGCAGT
TGAGCAGAGTAGTGCGGCCTCCGAGCTCGCGGAGGCCTCTAGCGAGGAGCTCGCAGAAGCACCCACGGAAGCCCC
AAGCCCAGAAGCCAGAGATAGCAAAGAAGACGGGAGGAAGTTTGATTTTGACGCTTGTAATGAAGTCCCTCCGGC
TCCTAAAGAGTCCTCAACCAGTGAGGGCGCTGATCAGAAAATGAGGTTTGTTTTTTCTCAGTTTTAGACCAGACG
CTATCTCCTTTTCATTGGTCATGTAATGACACACATAAGCTGTTTTTTTCTGCAATTGGCCAGCCAGACTGACGA
AATTGTAGTTTTGCTTCTAAAGAATGTTTCGTTTCTCTTTGTGTGTTTTAATGGGTGATTCAATTCCTTTTCTT
TTTCTCAACCTACCATGGTTGTGTTCTTAAATTCTTCCTAATTACCTTTAGCCCAGCAGAATTAATTAACTCCTG
TGGGTCTGAAATCTTATGGTTAGGTCAGATTTTCAATACAAGTTTGTCGGGGTATCATTTTTTCAGAACTAAATT
TCGGGTAGGTATGCAACCTCAGCACGAATTTTATGGTTTTGAGTTTGTTTCCTCCATGCTGCTTCCTTGTGGAGT
GACATTGTCTTTTGTCTCTAGTTCTCCCGAAGATGACTCGGATACAAAAAGGCTTTCCAAAGAGGAAAAGGGTCG
CAGCAGTTGTGGTAGAAATTTCTGGGTTAGTGGACTCTCTTCTACAACCAGAGCTACAGATTTGAAGAATCTTTT
CAGCAAATATGGGAAGGTGGTGGGCGCCAAGGTTGTGACAAATGCCCGGAGTCCTGGAGCTCGCTGTTACGGTTT
TGTCACGATGTCCACAGCAGAAGAGGCCACAAAATGCATTAACCACCTGCACAAGACGGAGCTCCACGGAAAGAT
GATCTCCGTGGAGAAAGCCAAAAATGAACCTGTGGGAAAGAAAACCTCTGACAAAAGAGACAGTGACGGGAAAAA
GGAGAAGTCGAGCAACAGTGACAGATCTACAAACCTTAAGAGGGATGATAAATGTGACAGAAAAGATGATGCTAA
GAAGGGTGACGACGGAAGTGGAGAAAAGAGTAAGGACCAAGATGATCAGAAACCTGGCCCCTCAGAGCGATCTCG
AGCCACAAAGTCAGGAAGTCGAGGGACCGAACGGACTGTAGTAATGGATAAATCCAAAGGGGTGCCTGTGATTAG
TGTAAAAACGTCCGGGTCCAAAGAGAGAGCTTCCAAAAGCCAGGATCGCAAATCAGCCAGCAGAGAGAAGCGGTC
CGTCGTGTCCTTTGATAAGGTCAAGGAGCCTCGGAAGTCAAGAGACTCAGAGTCCCATAG
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FIGURE 5213

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CGAACTCCGCCCCCTCTTCTCCGCGTAGGCCCAGCTCCCTGAAGCGGCTGTTTCGAGCCACGCGCCCATCGGGTA
CCGAGGCACGCGCCGGGCGTCACGTGCGTTTCGCGGCGAGCGGAAATGACGCGAGTTGTGTGAGCCGCCAGTATG
GCCGGGCTATGGCGGCGAGCACTGGCTACGTGCGACTGTGGGGAGCGGCGCGGTGCTGGGTGCTGCGGCGGCCGA
TGCTGGCCGCCGCCGGGGGGCGGGTTCCCACTGCAGCAGGAGCGTGGTTGCTCCGAGGCCAGCGGACCTGCGACG
CCTCTCCTCCTTGGGCACTGTGGGGCCGAGGCCCGGCAATTGGGGGCCAATGGCGGGGGTTTTGGGAAGCGAGCA
GCCGCGGCGGAGGCGCATTCTCGGGGGGCGAGGACGCCTCCGAGGGCGGCGCGGAGGAAGGAGCCGGCGGCGCGG
GGGGCAGCGCGGGCGCCGGGGAAGGCCCGGTCATAACGGCGCTCACGCCCATGACGATCCCCGATGTGTTTCCGC
ACCTGCCGCTCATCGCCATCACCCGCAACCCGGTGTTCCCGCGCTTTATCAAGATTATCGAGGTTAAAAATAAGA
AGTTGGTTGAGCTGCTGAGAAGGAAAGTTCGTCTCGCCCAGCCTTATGTCGGCGTCTTTCTAAAGAGAGATGACA
GCAATGAGTCGGATGTGGTCGAGAGCCTGGATGAAATCTACCACACGGGGACGTTTGCCCAGATCCATGAGATGC
AGGACCTTGGGGACAAGCTGCGCATGATCGTCATGGGACACAGAAGAGTCCATATCAGCAGACAGCTGGAGGTGG
AGCCCGAGGAGCCGGAGGCGGAGAACAAGCACAAGCCCCGCAGGAAGTCAAAGCGGGGCAAGAAGGAGGCGGAGG
ACGAGCTGAGCGCCAGGCACCCGGCGGAGCTGGCGATGGAGCCCACCCCTGAGCTCCCGGCTGAGGTGCTCATGG
TGGAGGTAGAGAACGTTGTCCACGAGGACTTCCAGGTCACGGAGGAGGTGAAAGCCCTGACTGCAGAGATCGTGA
AGACCATCCGGGACATCATTGCCTTGAACCCTCTCTACAGGGAGTCAGTGCTGCAGATGATGCAGGCTGGCCAGC
GGGTGGTGGACAACCCCATCTACCTGAGCGACATGGGCGCCGCGCTCACCGGGGCCGAGTCCCATGAGCTGCAGG
ACGTCCTGGAAGAGACCAATGTGGAGGAGAAGATCAAGCAGACCCACCGTAAGTACCTGCTGCAGGAGCAGCTAA
AGATCATCAAGAAGGAGCTGGGCCTGGAGAAGGACGACAAGGATGCCATCGAGGAGAAGTTCCGGGAGCGCCTGA
AGGAGCTCGTGGTCCCCAAGCACGTCATGGATGTTGTGGACGAGGAGCTGAGCAAGCTGGGCCTGCTGGACAACC
ACTCCTCGGAGTTCAATGTCACCCGCAACTACCTAGACTGGCTCACGTCCATCCCTTGGGGCAAGTACAGCAACG
AGAACCTGGACCTGGCGCGGGCACAGGCAGTGCTGGAGGAAGACCACTACGGCATGGAGGACGTCAAGAAACGCA
TCCTGGAGTTCATTGCCGTTAGCCAGCTCCGCGGCTCCACCCAGGGCAAGATCCTCTGCTTCTATGGCCCCCCTG
GCGTGGGTAAGACCAGCATTGCTCGCTCCATCGCCCGCGCCCTGAACCGAGAGTACTTCCGCTTCAGCGTCGGGG
GCATGACTGACGTGGCTGAGATCAAGGGCCACAGGCGGACCTACGTGGGCGCCATGCCCGGGAAGATCATCCAGT
GTTTGAAGAAGACCAAGACGGAGAACCCCCTGATCCTCATCGACGAGGTGGACAAGATCGGCCGAGGCTACCAGG
GGGACCCGTCGTCGGCACTGCTGGAGCTGCTGGACCCAGAGCAGAATGCCAACTTCCTGGACCACTACCTGGACG
TGCCCGTGGACTTGTCCAAGGTGCTGTTCATCTGCACGGCCAACGTCACGGACACCATCCCCGAGCCGCTGCGAG
ACCGTATGGAGATGATCAACGTGTCGGGCTACGTGGCCCAGGAGAAGCTGGCCATTGCGGAGCGCTACCTGGTGC
CCCAGGCTCGCGCCCTGTGTGGCTTGGATGAGAGCAAGGCCAAGCTGTCATCGGACGTGCTGACGCTGCTCATCA
AGCAGTACTGCCGCGAGAGCGGTGTCCGCAACCTGCAGAAGCAAGTGGAGAAGGTGTTACGGAAATCGGCCTACA
AGATTGTCAGCGGCGAGGCCGAGTCCGTGGAGGTGACGCCCGAGAACCTGCAGGACTTCGTGGGGAAGCCCGTGT
TCACCGTGGAGCGCATGTATGACGTGACACCGCCCGGCGTGGTCATGGGGCTGGCCTGGACCGCAATGGGAGGCT
CCACGCTGTTTGTGGAGACATCCCTGAGACGGCCACAGGACAAGGATGCCAAGGGTGACAAGGATGGCAGCCTGG
AGGTGACAGGCCAGCTGGGGGAGGTGATGAAGGAGAGCGCCCGCATAGCCTACACCTTCGCCAGAGCCTTCCTCA
TGCAGCACGCCCCCGCCAATGACTACCTGGTGACCTCACACATCCACCTGCATGTGCCCGAGGGCGCCACCCCCA
AGGACGGCCCAAGCGCAGGCTGCACCATCGTCACGGCCCTGCTGTCCCTGGCCATGGGCAGGCCTGTCCGGCAGA
ATCTGGCCATGACTGGCGAAGTCTCCCTCACGGGCAAGATCCTGCCTGTTGGTGGCATCAAGGAGAAGACCATTG
CGGCCAAGCGCGCAGGGGTGACGTGCATCGTCCTGCCAGCCGAGAACAAGAAGGACTTCTACGACCTGGCAGCCT
TCATCACCGAGGGCCTGGAGGTGCACTTCGTGGAACACTACCGGGAGATCTTCGACATCGCCTTCCCGGACGAGC
AGGCAGAGGCGCTGGCCGTGGAACGGTGACGGCCACCCCGGGACTGCAGGCGGCGGATGTCAGGCCCTGTCTGGG
CCAGAACTGAGCGCTGTGGGGAGCGCGCCCGGACCTGGCAGTGGAGCCACCGAGCGAGCAGCTCGGTCCAGTGAC
CCAGATCCCAGGGACCTCAGTCGGCTTAATCAGAGTGTGGCATAGAAGCTATTTAATGATTAAAGTCATTTGCAG
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FIGURE 5214

GGAGGGCTTAAGGAAGTAAA**ATG**GCGGACCTGGCGAACGAAGAAAAGCCTGCCATTGCTCCGCCCGTCTTTGTGT
TTCAGAAGGATAAAGGACAAAAGTCCCCTGCAGAGCAAAAAAACTTGTCGGATTCGGGAGAGGAGCCTCGGGGGG
AGGCTGAGGCCCCCCACCATGGCACGGGTCACCCCGAGTCAGCTGGCGAGCATGCCCTAGAACCTCCTGCCCCTG
CTGGCGCCTCAGCCAGCACTCCTCCGCCTCCCGCTCCTGAAGCCCAGCTTCCTCCTTTTCCGCGAGAACTGGCAG
GGAGGTCAGCTGGCGGCTCCAGTCCTGAAGGCGGAGAAGATTCTGACAGAGAAGATGGAAATTACTGCCCTCCTG
TCAAGCGAGAAAGAACATCCTCTTTAACCCAGTTCCCACCCTCACAGTCAGAGGAAAGGAGCAGTGGCTTCCGGT
TGAAGCCACCAACGCTGATCCACGGCCAAGCCCCCAGCGCAGGTCTGCCAAGCCAGAAGCCCAAGGAGCAGCAGC
GGAGCGTGCTTCGCCCGGCAGTGTTACAAGCTCCGCAGCCAAAGGCGCTGTCCCAGACTGTCCCCAGCAGTGGCA
CCAACGGGGTCAGCCTCCCAGCAGACTGCACGGGGGCAGTGCCCGCAGCATCCCCTGACACTGCTGCATGGAGAA
GTCCTTCCGAAGCTGCCGATGAGGAGAAAGAGCCCCAGAAAAATGAGTCCAGCAATGCCTCTGAAGAGGAAGCCT
GTGAGAAAAAAGACCCCGCCACACAGCAAGCCTTTGTATTTGGGCAGAACTTGAGGGACAGAGTTAAGCTGATAA
ATGAGAGCGTGGACGAAGCCGACATGGAGAATGCTGGACACCCCAGCGCAGACACGCCAACCGCAACGAACTATT
TCCTCCAGTATATCAGTTCCAGTTTAGAGAACTCAACCAATAGTGCCGACGCCTCCAGCAACAAATTTGTATTTG
GCCAGAACATGAGCGAGCGAGTTTTGAGCCCCCCAAAATTAAACGAGGTCAGTTCAGATGCCAACAGGGAAAATG
CAGCTGCCGAGTCAGGGTCTGAGTCCTCGTCCCAGGAGGCCACCCCTGAGAAAGGGTCCCTGGCTGAGTCGGCAG
CCGCCTACACCAAGGCAACAGCGCGGAAGTGTTTGTTGGAAAAAGTGGAAGTCATCACCGGGGAGGAGGCGGAGA
GCAATGTGTTACAGATGCAGTGCAAGCTGTTTGTCTTTGACAAGACCTCACAGTCCTGGGTGGAGAGAGGCCGGG
GGCTGCTCAGACTCAATGACATGGCGTCCACCGATGACGGCACACTACAGTCCCGACTAGTGATGCGGACCCAGG
GGAGCCTGCGACTGATCCTCAACACCAAGCTGTGGGCCCAGATGCAGATCGACAAGGCCAGCGAGAAGAGCATTC
GCATCACAGCCATGGACACCGAGGACCAGGGCGTGAAGGTCTTCCTGATCTCGGCCAGCTCCAAGGACACAGGTC
AGTTGTATGCAGCCCTGCACCACCGCATCCTGGCCCTGCGCAGCCGCGTGGAGCAGGAGCAGGAGGCCAAGATGC
CCGCGCCTGAGCCTGGGGCAGCCCCATCCAACGAGGAGGACGACAGCGACGATGACGATGTCCTGGCTCCTTCAG
GGGCCACCGCAGCTGGTGCTGGTGACGAAGGGGACGGGCAGACGACCGGGAGCACA**TAG**CGGCCGGGAGCCCGGC
TGCACACCAGGCTGCTGCTTTGTCCGTCTATCCACCCGCCCACCCGCCCCCACCCCACCGGCAGCGTCCAGGTGC
GGGGCCGGGAACCACACACCCCACTGGGCCGGCCACAGTCTGGACCCGCACGTCCTGTTCAAAAGCAGACTCGGG
AACTGCCTGAATGTGGTTTGGGACACGAGACCTCATCATATTGATGAGCGAACAAACAAGAACATTTCCTCCCTC
CCCTCCTTTGAATTGAAATGGCACATTAAGACTTGTCACGGCTTCTCACTGGGACTGGAGACCTCGTTCCTTCAC
CCCGCGTGTCGCCAGCCTCTGGGTCCAGCCAGAGCCCCTGGCTTCTCCGCCACCCACACCCTTCCCACCCTGCTG
TGGGGCCCTGCCTTTGTGGGGAGCAGCCAGCCCTCTGCCCCTGCCCAGGGCTCCCCAACTATAGGCCTGGGACCC
CCGCCCAGCTTGGGGGGCTGCTCGTACGAGTGTAGACACTGGGCCCATTGGACGTGCTGTTAACTACTATCTTCA
TTTCCCACTTCCCCTCTCTGATTGGGGGTGTATATTTACATCTTTTTTTCTTTTTATTTTCGAAGGCTTTGTTT
TGGTTTCTTAGGTTAAGATGCTCTCGAGCGTTGAGCAGGCACAGCTCTGTCGAGGTCCCTGTCCCCCACCTGTGG
TTCTGGCCTCTGAGGTTGGGGGACTACTTGTTTCCCACCCCAGGTTCCTCCAGGCCAAGTCATGGGGTGATGAGG
AGTTGGGGCCCTGTCTGTCCTAGGCCTGGAGAGTGCCTGTCTGGGAAAAGGTCACTGGACCTGGAAGGGTCCCCA
GGGTCCCCTGACTCCCGTCTCCATCTGTCACGTGGTTCACCATCATCAGGCACCAGGCGCAAACTGCTTCCCGCT
GTTGGCCATCCCTTCCCCAGCCACAGGTGTCCCTGCCCCCAGGACAGTCCAGGGCCAGGGGCTTCTGTGAGAGGC
AGAGGGGGACCCTCACCAAATCTTGGTGGAAGAGCCCAGGGGCTGGTCCCAGAACAGGCAGTCTCACAAGCACGC
AGCACACTGGAGTGGACGCCTGTGCCCACCCGAGCCTGGAGCATGGCCAAGAGCCAGCTTGCACCACCCACCTGG
GAGGCCGAGGAGGAGGTCCCCTGGGCACAGGGCCTCTTTGGGACTTCAGAGGAAATCTCCCAGTCCCACTCTCGG
AGGGTTAAGAGAAGGCCTCCTGCAGCTGTGCCGTCCACACCTCTAGGTCGCCAGAGCCCTGCCCCCAGCCCCCAG
CAAGCCTGAGCCCGGGAAGAACCAGAGGCCCTCCCGAGAGACCCAGTCACACGTCTCTGCTTTAAGCCTTAGCCA
GCTAGTGACGAGTACAACGAGATAACGCCCATGTGTTTTGGAACATTTATGTAAGATTGTCATATGAAATGTATT
TGGGAACTACATTAAACTTTTAACTAAAAAAAAAAAAAAAAAAAAAAAA

FIGURE 5215

MADLANEEKPAIAPPVFVFQKDKGQKSPAEQKNLSDSGEEPRGEAEAPHHGTGHPESAGEHALEPPAPAGASAST
PPPPAPEAQLPPFPRELAGRSAGGSSPEGGEDSDREDGNYCPPVKRERTSSLTQFPPSQSEERSSGFRLKPPTLI
HGQAPSAGLPSQKPKEQQRSVLRPAVLQAPQPKALSQTVPSSGTNGVSLPADCTGAVPAASPDTAAWRSPSEAAD
EEKEPQKNESSNASEEEACEKKDPATQQAFVFGQNLRDRVKLINESVDEADMENAGHPSADTPTATNYFLQYISS
SLENSTNSADASSNKFVFGQNMSERVLSPPKLNEVSSDANRENAAAESGSESSSQEATPEKGSLAESAAAYTKAT
ARKCLLEKVEVITGEEAESNVLQMQCKLFVFDKTSQSWVERGRGLLRLNDMASTDDGTLQSRLVMRTQGSLRLIL
NTKLWAQMQIDKASEKSIRITAMDTEDQGVKVFLISASSKDTGQLYAALHHRILALRSRVEQEQEAKMPAPEPGA
APSNEEDDSDDDDVLAPSGATAAGAGDEGDGQTTGST

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FIGURE 5216

TGCGCGTGCGCAGGGATAAGAGAGCGGTCTGGACAGCGCGTGGCCGGCGCCGCTGTGGGGACAGC**ATG**AGCGGCG
GTTGGATGGCGCAGGTTGGAGCGTGGCGAACAGGGGCTCTGGGCCTGGCGCTGCTGCTGCTGCTCGGCCTCGGAC
TAGGCCTGGAGGCCGCCGCGAGCCCGCTTTCCACCCCGACCTCTGCCCAGGCCGCAGGCCCCAGCTCAGGCTCGT
GCCCACCCACCAAGTTCCAGTGCCGCACCAGTGGCTTATGCGTGCCCCTCACCTGGCGCTGCGACAGGGACTTGG
ACTGCAGCGATGGCAGCGATGAGGAGGAGTGCAGGATTGAGCCATGTACCCAGAAAGGGCAATGCCCACCGCCCC
CTGGCCTCCCCTGCCCCTGCACCGGCGTCAGTGACTGCTCTGGGGGAACTGACAAGAAACTGCGCAACTGCAGCC
GCCTGGCCTGCCTAGCAGGCGAGCTCCGTTGCACGCTGAGCGATGACTGCATTCCACTCACGTGGCGCTGCGACG
GCCACCCAGACTGTCCCGACTCCAGCGACGAGCTCGGCTGTGGAACCAATGAGATCCTCCCGGAAGGGGATGCCA
CAACCATGGGGCCCCCTGTGACCCTGGAGAGTGTCACCTCTCTCAGGAATGCCACAACCATGGGGCCCCCTGTGA
CCCTGGAGAGTGTCCCCTCTGTCGGGAATGCCACATCCTCCTCTGCCGGAGACCAGTCTGGAAGCCCAACTGCCT
ATGGGGTTATTGCAGCTGCTGCGGTGCTCAGTGCAAGCCTGGTCACCGCCACCCTCCTCCTTTTGTCCTGGCTCC
GAGCCCAGGAGCGCCTCCGCCCACTGGGGTTACTGGTGGCCATGAAGGAGTCCCTGCTGCTGTCAGAACAGAAGA
CCTCGCTGCCC**TGA**GGACAAGCACTTGCCACCACCGTCACTCAGCCCTGGGCGTAGCCGGACAGGAGGAGAGCAG
TGATGCGGATGGGTACCCGGGCACACCAGCCCTCAGAGACCTGAGCTCTTCTGGCCACGTGGAACCTCGAACCCG
AGCTCCTGCAGAAGTGGCCCTGGAGATTGAGGGTCCCTGGACACTCCCTATGGAGATCCGGGGAGCTAGGATGGG
GAACCTGCCACAGCCAGAACTGAGGGGCTGGCCCCAGGCAGCTCCCAGGGGGTAGAACGGCCCTGTGCTTAAGAC
ACTCCTGCTGCCCCGTCTGAGGGTGGCGATTAAAGTTGCT

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FIGURE 5217

MSGGWMAQVGAWRTGALGLALLLLLGLGLGLEAAASPLSTPTSAQAAGPSSGSCPPTKFQCRTSGLCVPLTWRCD
RDLDCSDGSDEEECRIEPCTQKGQCPPPPGLPCPCTGVSDCSGGTDKKLRNCSRLACLAGELRCTLSDDCIPLTW
RCDGHPDCPDSSDELGCGTNEILPEGDATTMGPPVTLESVTSLRNATTMGPPVTLESVPSVGNATSSSAGDQSGS
PTAYGVIAAAAVLSASLVTATLLLLSWLRAQERLRPLGLLVAMKESLLLSEQKTSLP

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FIGURE 5218A

CCTCGCTCAAGGAGCACCCCCGGGGCACCCTCCTGTCCGATGGCAGCCCGGCCCTGTCCAGGAATGTCGGTATGA
CGGTCTCTCAGAAAGGGGGTCCCCAGCCAACACCGAGCCCGGCTGGCCCTGGGACGCAACTCGGACCAATCACAG
GAGAGATGGATGAAGCCGATTCTGCGTTTTTAAAAATTTAAGCAGACAGCTGATGACTCTCTGTCCCTTACATCTC
CAAACACCGAGTCCATTTTTGTAGAAGATCCCTACACCGCCTCGCTGAGGAGTGAGATTGAGTCAGACGGCCACG
AGTTTGAAGCTGAGTCCTGGAGCCTCGCCGTGGATGCAGCCTACGCCAAGAAGCAAAAGAGGGAGGTGGTGAAAA
GACAAGATGTCCTTTATGAGCTGATGCAGACAGAGGTGCACCACGTGCGGACGCTCAAGATCATGCTGAAGGTGT
ACTCCAGGGCCCTGCAGGAGGAGCTGCAGTTCAGCAGCAAGGCCATTGGCCGCCTCTTCCCATGCGCTGACGACC
TGCTGGAGACGCACAGCCACTTCCTCGCTCGGCTCAAGGAGCGCCGCCAGGAGTCCCTGGAGGAGGGCAGTGACC
GGAATTATGTCATCCAGAAAATCGGCGACCTCCTGGTTCAGCAGTTTTCAGGTGAAAATGGGGAGAGAATGAAAG
AAAAGTACGGTGTGTTTTGTAGTGGCCACAATGAAGCTGTTAGTCATTACAAGTTGCTGCTTCAGCAAAACAAGA
AATTTCAAAACTTGATCAAGAAAATTGGCAACTTCTCCATCGTGCGGCGGCTTGGCGTGCAGGAGTGCATTCTCC
TGGTTACACAACGCATAACCAAATACCCAGTGCTGGTGGAGCGCATCATCCAGAACACGGAAGCTGGCACTGAGG
ACTATGAAGACCTGACCCAGGCCTTGAACCTCATCAAAGATATCATCTCACAAGTGGACGCCAAGGTCAGTGAGT
GTGAGAAGGGCCAGCGCCTCAGGGAGATCGCAGGGAAGATGGACCTGAAGTCTTCCAGCAAACTCAAGAACGGGC
TCACCTTCCGCAAGGAAGACATGCTTCAGCGGCAGCTCCACCTGGAGGGCATGCTATGCTGGAAGACCACATCAG
GGCGCTTGAAAGATATCCTGGCTATCCTGCTGACCGACGTACTTTTGCTGCTACAAGAAAAAGATCAGAAATACG
TCTTTGCTTCTGTGGACTCAAAGCCACCCGTCATCTCGTTACAAAAGCTCATCGTGAGGGAAGTGGCCAACGAGG
AGAAAGCGATGTTTCTGATCAGCGCCTCCTTGCAAGGGCCGGAGATGTATGAAATCTACACGAGCTCCAAAGAGG
ACAGGAACGCCTGGATGGCCCACATCCAAAGGGCTGTGGAGAGCTGCCCTGACGAGGAGGAGGGGCCCTTCAGCC
TGCCCGAAGAGGAAAGGAAGGTGGTCGAGGCCCGCGCCACGAGACTCCGGGACTTTCAAGAGCGGTTGAGCATGA
AAGACCAGCTGATCGCACAGAGCCTCCTAGAGAAACAGCAGATCTACCTGGAGATGGCCGAGATGGGCGGCCTCG
AAGACCTGCCCCAGCCCCGAGGCCTATTCCGTGGAGGGGACCCATCCGAGACCCTGCAGGGGGAGCTAATTCTCA
AGTCGGCCATGAGCGAGATCGAGGGCATCCAGAGCCTGATCTGCAGGCAGCTGGGCAGCGCCAACGGCCAGGCGG
AAGACGGAGGCAGCTCCACAGGCCCGCCCAGGAGGGCTGAGACCTTCGCGGGCTACGACTGCACAAACAGCCCCA
CCAAGAATGGCAGTTTCAAGAAGAAAGTCAGCAGCACTGACCCCAGGCCCCGAGACTGGCGAGGCCCCCCAAACA
GCCCGGACTTGAAGCTCAGTGACAGTGACATTCCTGGGAGCTCTGAGGAATCGCCGCAGGTGGTGGAGGCGCCAG
GCACGGAATCCGATCCCCGTCTGCCCACCGTCCTGGAGTCGGAGCTTGTCCAGCGGATCCAGACACTGTCCCAGC
TGCTCCTGAACCTTCAGGCGGTAATCGCCCACCAGGACAGCTATGTGGAGACGCAGCGGGCTGCCATCCAGGAGC
GGGAGAAGCAGTTCCGGCTGCAGTCGACGCGTGGGAACCTGCTGCTGGAGCAGGAGCGGCAACGCAACTTCGAGA
AGCAGCGGGAGGAGCGCGCGGCCCTGGAGAAGCTGCAGAGCCAGCTGCGGCACGAGCAGCAGCGCTGGGAGCGCG
AGCGCCAGTGGCAGCACCAGGAGCTGGAGCGTGCGGGCGCGCGGCTGCAGGAGCGCGAGGGCGAGGCGCGGCAGC
TACGCGAGCGGCTGGAGCAGGAGCGGGCCGAGCTGGAGCGCCAGCGCCAGGCCTACCAGCACGACCTGGAGCGGC
TGCGCGAGGCCCAGCGTGCCGTGGAGCGCGAGCGGGAGCGCCTGGAGCTGCTGCGCCGCCTCAAGAAGCAGAACA
CCGCGCCAGGCGCGCTGCCGCCCGACACACTGGCCGAGGCCCAGCCCCCAAGCCACCCTCCCAGCTTCAACGGGG
AAGGGCTGGAGGGCCCTCGTGTGAGCATGCTGCCATCCGGCGTGGGGCCAGAGTACGCAGAGCGCCCCGAGGTGG
CTCGCCGGGACAGCGCCCCCACCGAGAACCGGCTGGCCAAGAGCGATGTGCCCATCCAGCTGCTCAGCGCCACCA
ACCAGTTCCAGAGGCAGGCGGCCGTGCAGCAGCAGATCCCCACCAAGCTGGCGGCCTCCACCAAGGGTGGCAAGG
ACAAGGGCGGCAAGAGCAGGGGCTCTCAGCGCTGGGAGAGCTCAGCGTCCTTCGACCTGAAGCAGCAGCTGCTGC
TCAACAAGCTCATGGGGAAAGATGAGAGCACCTCACGGAACCGCCGCTCGCTGAGCCCTATCCTGCCCGGCAGAC
ACAGTCCTGCGCCCCCACCAGACCCTGGCTTCCCCGCCCCGAGCCCACCGCCAGCTGACAGCCCCTCCGAGGGCT
TCTCTCTCAAGGCCGGGGGGCACAGCCCTCCTGCCCGGGCCCCCAGCTCCCTCGCCACTGCCGGCCACACCACTCA
GCGCCAAGGAGGACGCCAGCAAAGAAGACGTCATCTTCTTCTAAAAGGGCCGTGACTCAAGGAAAGTTTTTAATG
GAAAGTTGAGCCAGAACTAAACCAGGGAGCTGTCTGAAATCATAGCACCCCATCCGGGTGGCGGGGAGATCAACT
CCGAGCTGTTTTTCCGAGGCAGTGAGGAACGGTGCCGGCTCTGCACGGAGCTGAGGACAGGACAGACCTTGCTTT
GAGAAGGAGCTGCCGGCCGGGGCCACGCTCCACAGCCGCCGCGCGACAGTGGAGCCAAGGGTTAGGGCACCAGGA
GGGGCCAGGTGGCGTCGGCAGCATCGTCCCCAGAATCAGGCAGAATCCACTTCCCAAACAGAGCCCCACGCAGG
TTCACCATGAACCTCAGGGTCAGGGAATGAGCCAGGCACGGGGGCATGGGCAGAGAGGGCCACGGGGCAGGGCCC
ACTGAGGGAACATCAGTGGCCCTCCAGTCAGGTTCTGTGGGTTTGGAAGCCCATCGTGAAAGGGGCTGACCTTTG

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FIGURE 5218B

CCCCTTTTTACTTGGCATTGGTTTTGAAACCAGCTGTTTCCCAAACTCTGCTTCCCAAGGGCAACCGTTGCTGTT
CACACGCTCAGCCTGTCTGGGGGAGCGGGCCTCTAGCTTCAGCCAGGGCGGGTACACACCCTGGGCACAGGGTCC
TCAGCCCCCGGGAAATGAGCTCCCAGGGCTGGCGTCCCACCTTCCAGGTGGGGGCTGGCACATCACAGACTGTCG
AGAGCGCCATGTCCCAGGGCATGCAGAGGATGCACCTAGAGACGTTGCAGCAAGTGGACAAGTGGCCGCTGTGCG
GGCCCCTCGCTTGTAGTGAGCTGTTGCAGCTTACGGTCCGTTCCCTGGAGGGGTGGAGGAAGGAGGTGTTGGGCA
GCATCAAAGGTGCTGGGACATCCCAGGGTGGTGAGATCCATCACGATCCAGCTCCGGTGGAGAAAGGGCCCATG
TCAAGCCTTGTTCTGCACCCCAAGCATTGGTGGTAGGACTGGGTCCTGGCTGATCGTCCTTGTTCCCAGTGGGGT
ACATGTGAGCCCCTGCCAGGGCCAAGTCCTTCTCCCGAACCCAGGGTCCTGGGAACTGCAGATCCCGGGGGGATT
CAGCCCTTCTCCCACTGTGCTGGCAGAGGCACTCCTGTGACGCTGAATACAGTGAACAGGGACATTCCCGCCACT
CGGGGACAGATGGGCACAAGGGAGGGGAAACTCCATCAGGAAGTGCTCCCCTGGGCAGAGGCGCCCACTGGGTGC
TGTGGGCTCAGGAGGGGGCGGGGCAGGAGCTGGTGCCAACCGGGAACCAGAGCCCCACAGCCATACAGCCCATTG
GTGACAAGGTCCTGAGAACACAGTGGCCAGGTGTCCCCAGGCTCCTGGCCCCTCCGACGACCTCAACTCTGCCCA
GCCCGGTCCCTGGCCATCAGCGACGCTGTCCGCCCCCCGTCAGATCCCATGTGTGCCATGTTTATCATCAGTGTT
TTGTATTTTTGTACTGAGTATCGGAGCACTTTACAGAAGCTGACTGTACATTCCTGTTCTGTTGTGAAGAGAACA
TTCCCAGACCCTGGCACCCTCCTGAGCCGGCGTGTGCCGGTCCAGCCCTCCGAGATGCCACAATTCCTTGGATGG
GGGAGAAGTTCAAGGAATTTCTGCTCGGCCACGCGGTGGGAACCCCGCGTCCCCGCCATGTGGCAGAGGGGTCTC
AGTCGTGCTAGGCATCGGGCGGCAGCGCCGACAGCCCTTCCCTCGCCAGTGCCCCTCGGCCACTCCTGGGTTGGA
GCCCGATTTTATTTGTAAAGTTGACAGTCGAGCAAATGTTCCTATTTTCGTGGGATCTGCACACGTCTTTGTCAG
TTGTGGTCATGATCTTAGTCACCTGCTAATTATTTTTACAATGATTACAACATTTCCTCACTGCGGGATATTTCT
GACCCGCTTTAGAACTTAAGACCTGATTCTAGCAATAAACGTGTCCGAGATG

FIGURE 5219

TCTCCTGTACCTGGGCATCCAGAAAA**ATG**GTGGTGATGGCGCGACTCTCGCGGCCCGAGCGGCCGGACCTTGTCT
TCGAGGAAGAGGACCTCCCCTATGAGGAGGAAATCATGCGGAACCAATTCTCTGTCAAATGCTGGCTTCGCTACA
TCGAGTTCAAACAGGGCGCCCCGAAGCCCAGGCTCAATCAGCTATACGAGCGGGCACTCAAGCTGCTGCCCTGCA
GCTACAAACTCTGGTACCGATACCTGAAGGCGCGTCGGGCACAGGTGAAGCATCGCTGTGTGACCGACCCTGCCT
ATGAAGATGTCAACAACTGTCATGAGAGGGCCTTTGTGTTCATGCACAAGATGCCTCGTCTGTGGCTAGATTACT
GCCAGTTCCTCATGGACCAGGGGCGCGTCACACACACCCGCCGCACCTTCGACCGTGCCCTCCGGGCACTGCCCA
TCACGCAGCACTCTCGAATTTGGCCCCTGTATCTGCGCTTCCTGCGCTCACACCCACTGCCTGAGACAGCTGTGC
GAGGCTATCGGCGCTTCCTCAAGCTGAGTCCTGAGAGTGCAGAGGAGTACATTGAGTACCTCAAGTCAAGTGACC
GGCTGGATGAGGCCGCCCAGCGCCTGGCCACCGTGGTGAACGACGAGCGTTTCGTGTCTAAGGCCGGCAAGTCCA
ACTACCAGCTGTGGCACGAGCTGTGCGACCTCATCTCCCAGAATCCGGACAAGGTACAGTCCCTCAATGTGGACG
CCATCATCCGCGGGGGCCTCACCCGCTTCACCGACCAGCTGGGCAAGCTCTGGTGTTCTCTCGCCGACTACTACA
TCCGCAGCGGCCATTTCGAGAAGGCTCGGGACGTGTACGAGGAGGCCATCCGGACAGTGATGACCGTGCGGGACT
TCACACAGGTGTTTGACAGCTACGCCCAGTTCGAGGAGAGCATGATCGCTGCAAAGATGGAGACCGCCTCGGAGC
TGGGGCGCGAGGAGGAGGATGATGTGGACCTGGAGCTGCGCCTGGCCCGCTTCGAGCAGCTCATCAGCCGGCGGC
CCCTGCTCCTCAACAGCGTCTTGCTGCGCCAAAACCCACACCACGTGCACGAGTGGCACAAGCGTGTCGCCCTGC
ACCAGGGCCGCCCCCGGGAGATCATCAACACCTACACAGAGGCTGTGCAGACGGTGGACCCCTTCAAGGCCACAG
GCAAGCCCCACACTCTGTGGGTGGCGTTTGCCAAGTTTTATGAGGACAACGGACAGCTGGACGATGCCCGTGTCA
TCCTGGAGAAGGCCACCAAGGTGAACTTCAAGCAGGTGGATGACCTGGCAAGCGTGTGGTGTCAGTGCGGAGAGC
TGGAGCTCCGACACGAGAACTACGATGAGGCCTTGCGGCTGCTGCGAAAGGCCACGGCGCTGCCTGCCCGCCGGG
CCGAGTACTTTGATGGTTCAGAGCCCGTGCAGAACCGCGTGTACAAGTCACTGAAGGTCTGGTCCATGCTCGCCG
ACCTGGAGGAGAGCCTCGGCACCTTCCAGTCCACCAAGGCCGTGTACGACCGCATCCTGGACCTGCGTATCGCAA
CACCCCAGATCGTCATCAACTATGCCATGTTCCTGGAGGAGCACAAGTACTTCGAGGAGAGCTTCAAGGCGTACG
AGCGCGGCATCTCGCTGTTCAAGTGGCCCAACGTGTCCGACATCTGGAGCACCTACCTGACCAAATTCATTGCCC
GCTATGGGGGCCGCAAGCTGGAGCGGGCACGGGACCTGTTTGAACAGGCTCTGGACGGCTGCCCCCCAAAATATG
CCAAGACCTTGTACCTGCTGTACGCACAGCTGGAGGAGGAGTGGGGCCTGGCCCGGCATGCCATGGCCGTGTACG
AGCGTGCCACCAGGGCCGTGGAGCCCGCCCAGCAGTATGACATGTTCAACATCTACATCAAGCGGGCGGCCGAGA
TCTATGGGGTCACCCACACCCGCGGCATCTACCAGAAGGCCATTGAGGTGCTGTCGGACGAGCACGCGCGTGAGA
TGTGCCTGCGGTTTGCAGACATGGAGTGCAAGCTCGGGGAGATTGACCGCGCCCGGGCCATCTACAGCTTCTGCT
CCCAGATCTGTGACCCCCGGACGACCGGCGCGTTCTGGCAGACGTGGAAGGACTTTGAGGTCCGGCATGGCAATG
AGGACACCATCAAGGAAATGCTGCGTATCCGGCGCAGCGTGCAGGCCACGTACAACACGCAGGTCAACTTCATGG
CCTCGCAGATGCTCAAGGTCTCGGGCAGTGCCACGGGCACCGTGTCTGACCTGGCCCCTGGGCAGAGTGGCATGG
ACGACATGAAGCTGCTGGAACAGCGGGCAGAGCAGCTGGCGGCTGAGGCGGAGCGTGACCAGCCCTTGCGCGCCC
AGAGCAAGATCCTGTTCGTGAGGAGTGACGCCTCCCGGGAGGAGCTGGCAGAGCTGGCACAGCAGGTCAACCCCG
AGGAGATCCAGCTGGGCGAGGACGAGGACGAGGACGAGATGGACCTGGAGCCCAACGAGGTTCGGCTGGAGCAGC
AGAGCGTGCCAGCCGCAGTGTTTGGGAGCCTGAAGGAAGAC**TGA**CCCGTCCCTCCCCCATCCCCCCTCCCCACCC
CCTCCCCAATACAGCTACGTTTGTACATC

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FIGURE 5220

MVVMARLSRPERPDLVFEEEDLPYEEEIMRNQFSVKCWLRYIEFKQGAPKPRLNQLYERALKLLPCSYKLWYRYL
KARRAQVKHRCVTDPAYEDVNNCHERAFVFMHKMPRLWLDYCQFLMDQGRVTHTRRTFDRALRALPITQHSRIWP
LYLRFLRSHPLPETAVRGYRRFLKLSPESAEEYIEYLKSSDRLDEAAQRLATVVNDERFVSKAGKSNYQLWHELC
DLISQNPDKVQSLNVDAIIRGGLTRFTDQLGKLWCSLADYYIRSGHFEKARDVYEEAIRTVMTVRDFTQVFDSYA
QFEESMIAAKMETASELGREEEDDVDLELRLARFEQLISRRPLLLNSVLLRQNPHHVHEWHKRVALHQGRPREII
NTYTEAVQTVDPFKATGKPHTLWVAFAKFYEDNGQLDDARVILEKATKVNFKQVDDLASVWCQCGELELRHENYD
EALRLLRKATALPARRAEYFDGSEPVQNRVYKSLKVWSMLADLEESLGTFQSTKAVYDRILDLRIATPQIVINYA
MFLEEHKYFEESFKAYERGISLFKWPNVSDIWSTYLTKFIARYGGRKLERARDLFEQALDGCPPKYAKTLYLLYA
QLEEEWGLARHAMAVYERATRAVEPAQQYDMFNIYIKRAAEIYGVTHTRGIYQKAIEVLSDEHAREMCLRFADME
CKLGEIDRARAIYSFCSQICDPRTTGAFWQTWKDFEVRHGNEDTIKEMLRIRRSVQATYNTQVNFMASQMLKVSG
SATGTVSDLAPGQSGMDDMKLLEQRAEQLAAEAERDQPLRAQSKILFVRSDASREELAELAQQVNPEEIQLGEDE
DEDEMDLEPNEVRLEQQSVPAAVFGSLKED

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FIGURE 5221

ATGGGGCTGAGTCCAGATGCCCCAGAGGACGAGGCTGGCATCAAGAAGGCAGCAGAGAACATCAAGGCCTTGATT
GAGCATGAAATGAAGAACGGGATCCCTGCCAATCGAATCGTCCTGGGAGGCTTTTCACAGGGCGGGGCCCTGTCC
CTCTACACGGCCCTCACCTGCCCCCACCCGCTGGCTGGTATCGTAGCATCGAGCTGCTGGCTGCCTCTGCACCGG
GCCTTCCCCCAGGCAGCTAAAGGCAGTGGCAAGGGCCTGACCATCCTCCAGTGCCATGGGGAGCTGGACCCCATG
GTGCCCGTACGGTTTGGGACCCTGACGGCTGTTGTCACACCTGCCAGGGTCCAGTTCAAGACATACTCGGGTGTC
ATGCACAGCTGCTGTCCTCAGGAGATGGCAGCTGTGAAGGAATTTCTTGGAGAAGTTGCTGCCTTCTGTCTAACT
AGTCGCTGGCCCCAGTGCGCCTCCAGGCCCCCAGCCTCTGGGAGAGGGGAGAGAGCTCCTCCTGCCAAGAACACC
AGCCCAGGCCCTGTTTCTAGCCCAGGGCGTGCCAGCGGGACCACCAGACACTTCCGGGCCTACCCCAGGAACCCC
GTCCCCGGCCATGGCCCGTCGGTCCCGGGCTGCGGGCACGAGGTGGGGCTCCCCCGGCCAGCTCCGAGTGCCCG
GCCACGGCCCCCGACAGAGGGCCCCCGGAAATCAGTGAGCAGCGCCTCGGAGCACAGTACCACCGAGCCAAGCCC
GGCTGCCAGGAGGCGGCCCAGCGCCGCCCGTTCTGGGCCCTCAGCCCGCGGAACACCCAGGGCTCCTGCGCATCC
CTCGCAGCCCAAGCCGAAAGGACTGCAGGCTCTGCGACCCCCTCAGGTCACACCCCCAAGGAAGGACGCAGCCCC
AGCACTAGGACCGCTTTCTTCCTCTCCTTTGGCCACACCCTCTCCATCGGGTACCAAGGCAAGACCCGTACCGCC
TCCCGACAATGCAGCCACTCCCCTGCCAGCCACGCTCCCTCCCTCTCCACCGCCACGCCCCCCTCGCAAGTTCCA
CCCACACAGCTGATTATGTCCTTTCCAGAAGCAGGCGTCTCTTCCCTGGCCACAGCCGCTTTTGTGGCTTCAGTC
TCTCCATCAGTTTCATCCCCTCTGCAGAGACTCTCCTCTTCTGGCCACATTGCCTCTGCAGGCCTCTCCCTCTCC
TTTGACCACAGTCTCTCTGCAGGATCCTCCTCTAGTTTCTCCCTCTCTTTTGGCCTCACCGCCTCTGCAGGCTCC
GCCCCACCCACAGGCCCCACCTTCTATGACTACGCCCCCTATGCAGGCCCCGCCCTCTCTCCAGACCATTCCCCC
AATACAGGTCCCACATTCTCTGACCTCACCGTCTCTGCAGGCACCTCCCTCTCCTCTGGCTTTGTCCTCTCTGCA
GGCCACAACTTCTTTGGGCTCACCCACTCTGCAGGCCACACATTCTTTCCTGACAATGTCCCCTAG

5667/6881
FIGURE 5222

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GTCGCCCTCTGTCCCCTGCTCTACCTCTCTGTCCTTGTCTGGCTCTCCCGTCACCCTCCCTGCCTCTGTCTCTCT
TCTGGCCTGAGCCTGGGCCCAGCCACCTCCTGACCGGAGGGAATCGGTGACGGAGCGGGGCCAAGGGAGGGGTCC
GGAGGGAGTCAGGGATGGAGGGCAGAGGGAGTGGATGTGGGGGTTTGAGGACGTGTGACAAGCTCCAGCAGGGGT
GGGGGCCGGGCTGAGGGTGGGGGTGCGAGGTGGTCACTCCCATCGTGCCCCTGGCCGTCCCTCCACTCACCCACA
CCTGGCCCAGTCCACGTTGAGGTCCAGGACTGGGAAGGACCGGGTGAGTGCACCGGGGACCCAGGCCAGGTGCCC
CCCGGAGCCTGCTGGGGTGGCCAGAGCAGGAGGGGGTGTGTTTCCTTTTTGTGGGTGTTGCATGCAAATCAAGTG
GACAAGAAAAAATAACAAAACAAAAAACAAGAAAAAAAAAACACAAAACCCCGTAAAATCACAAAGAAAATCCAA
CACCAAAGGCGCAGAAGCCGGCTGGCCGTGGTGGGGGCAGCGTAGGCGTAGCATCCCTCTCCTCTCACTTAGCCT
GTTGACTCTTGTTATTATCATGATATTCACAAAACGCCGCATGTTTAAAAAGTCATAGATGTCATCTTCTCTCTG
CCCCCAGGGAGGAAAGCCACCTTCTCTTGCCCCTTGGCCCCTTTGTCAGGGGCCAGGGGTCTGCCGGGTGGGGGT
GCCAACAGGCCTGGCCCTTTCCTCCCCTGCATCCAGCCATGGGGGCCTCTGCGATTGCCGGAAGGTTGCATGGCT
GGTCCCAGGGCCAGCACAGGCCCGAGGCCGGGCTGCCTGGTTTTATTTTTATTTAACTTTATTTTCTGTTTTATG
AGTGTGTGTCCGCCCACCCCCACCCCCTTCAGTGTTAAGTGGGGAGCCCTGGGGGAGTCTCTCCTGCCTCCCAGC
CTCTCCCAAGACCTCCCCCCTCGTCACCAGCCATCCCTCTGGACCAGGCAGAGGGCGGACCGGGTGGGCAGGGGC
CTGAGGGTGGCTCGGGCCAGCCCACCAGCCAATGGACCCCTCCTCAGGCCGCCAGTGTCGCCCTGCCCCTTTTTA
AAACAAAATGCCCTCGTTTGTAAACCCTTAGACGCTTGAGAATAAACCCCTTCCTTTTCTTCC
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FIGURE 5223

CGCCGCGAGAAGGTCACACGATTCTCCAACATGGCGGCGGCGGCCCTGCGGAGTGGCTGGTGCCGCTGTCCACGG
AGATGCCTCGGCAGTGGAATCCAATTTCTTTCCAGCCACAACCTACCCCATGGGTCGACCTATCAGATGCGCCGG
CCGGGCGGAGAGCTGCCACTGTCCAAATCATATTCTTCTGGAAACAGAAAAGGCTTTCTGTCCGGCTTGCTAGAT
AATGTCAAACAAGAATTAGCCAAAAACAAAGAAATGAAAGAAAGTATAAAAAAATTCCGTGACGAGGCCAGAAGG
CTAGAAGAATCAGACGTGCTCCAGGAGGCCAGAAGGAAATACAAAACCATCGAGTCAGAAACCGTGCGGACGAGC
GAGGTGCTACGGAAGAAGCTTGGGGAGCTGACGGGCACCGTGAAGGAGAGCCTTCACGAAGTCAGTAAAAGTGAT
CTCGGCCGGAAAATCAAGGAGGGCGTGGAGGAAGCAGCCAAGACGGCCAAGCAGTCGGCCGAGTCGGTATCCAAA
GGCGGGGAGAAGCTGGGCAGGACAGCGGCCTTCAGAGCCCTCTCCCAGGGGGTGGAGTCCGTGAAGAAGGAAATT
GACGACAGCGTCCTGGGACAGACCGGGCCCTACCGGAGGCCCCAGCGACTCCGGAAGAGAACGGAGTTTGCGGGA
GATAAGTTCAAGGAGGAGAAAGTGTTTGAGCCAAACGAGGAGGCCCTGGGGGTCGTGCTGCACAAGGACTCCAAG
TGGTACCAGCAGTGGAAGGACTTCAAGGAGAACAACGTGGTGTTTAACCGGTTCTTCGAGATGAAGATGAAGTAT
GACGAAAGCGACAACGCGTTCATCCGGGCATCCCGGGCCCTTACGGACAAGGTCACCGACTTGCTGGGGGGCCTG
TTCTCCAAGACAGAGATGTCGGAGGTGCTCACGGAGATCCTCCGGGTGGACCCGGCCTTTGACAAGGACCGGTTT
CTGAAACAGTGCGAGAACGACATCATCCCCAATGTCCTGGAGGCCATGATTTCTGGAGAGCTTGACATTCTCAAA
GACTGGTGCTATGAAGCTACTTACAGCCAGCTGGCCCACCCCATCCAGCAGGCCAAGGCACTGGGTCTCCAGTTC
CATTCTCGCATCCTAGACATTGACAACGTCGACCTGGCCATGGGCAAGATGATGGAGCAGGGGCCGGTGCTGATC
ATCACCTTCCAGGCACAGCTGGTGATGGTGGTCAGGAACCCCAAAGGCGAGGTGGTGGAGGGTGACCCGGACAAG
GTGCTGCGGATGCTGTACGTGTGGGCGCTCTGCCGAGACCAGGACGAGCTCAACCCCTACGCGGCCTGGCGGCTC
CTGGACATCTCGGCCTCCAGCACCGAGCAGATTCTCTGAGTGTGGTGCCGGAGCCAGGTAGCCCCGGCCTGGGTC
ATCAGGCACAGAGGCACCGCAACACCACCTGCGGCAACT

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FIGURE 5224

MAAAALRSGWCRCPRRCLGSGIQFLSSHNLPHGSTYQMRRPGGELPLSKSYSSGNRKGFLSGLLDNVKQELAKNK
EMKESIKKFRDEARRLEESDVLQEARRKYKTIESETVRTSEVLRKKLGELTGTVKESLHEVSKSDLGRKIKEGVE
EAAKTAKQSAESVSKGGEKLGRTAAFRALSQGVESVKKEIDDSVLGQTGPYRRPQRLRKRTEFAGDKFKEEKVFE
PNEEALGVVLHKDSKWYQQWKDFKENNVVFNRFFEMKMKYDESDNAFIRASRALTDKVTDLLGGLFSKTEMSEVL
TEILRVDPAFDKDRFLKQCENDIIPNVLEAMISGELDILKDWCYEATYSQLAHPIQQAKALGLQFHSRILDIDNV
DLAMGKMMEQGPVLIITFQAQLVMVVRNPKGEVVEGDPDKVLRMLYVWALCRDQDELNPYAAWRLLDISASSTEQ
IL

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FIGURE 5225

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CGCCGGCTCCGCCCCCGTCGGGTGTTTGTGGTGGGGCTGCGGAGTCGCCGATCCCGCCGGAAGCGCCAGGACAAT
GGGGACCCGAGACGACGAGTACGACTACCTATTCAAAGTGGTGCTCATCGGGGACTCAGGCGTGGGCAAGAGCAA
CCTGCTGTCGCGCTTCACCCGCAACGAGTTCAACCTGGAGAGCAAGAGCACCATCGGCGTGGAGTTCGCCACCCG
CAGCATCCAGGTGGACGGCAAGACCATCAAGGCGCAGATCTGGGACACCGCTGGCCAGGAGCGCTACCGCGCCAT
CACCTCCGCGTACTACCGTGGTGCAGTGGGCGCCCTGCTGGTGTACGACATCGCCAAGCACCTGACCTATGAGAA
CGTGGAGCGCTGGCTGAAGGAGCTGCGGGACCACGCAGACAGCAACATCGTCATCATGCTGGTGGGCAACAAGAG
TGACCTGCGCCACCTGCGGGCTGTGCCCACTGACGAGGCCCGCGCCTTCGCAGAAAAGAACAACTTGTCCTTCAT
CGAGACCTCAGCCTTGGATTCCACTAACGTAGAGGAAGCATTCAAGAACATCCTCACAGAGATCTACCGCATCGT
GTCACAGAAACAGATCGCAGACCGCGCTGCCCACGACGAGTCCCCGGGGAACAACGTGGTGGACATCAGCGTGCC
GCCCACCACGGACGGACAGAAGCCCAACAAGCTGCAGTGCTGCCAGAACCTGTGACCCCTGCGCCTCCACCCAGC
GTGCGTGCACGTCCTCCGCCCGCCCCCGCCACGGTATCCTCTGGCCCCTCCCTGCTGTCCCTCTGTGGCCGGCTC
GTTCCAGCCCTCCCAGTGAGCTCTGCACGGCCGGGCCGGGGCCCAGGAAGGACAGGAGCCAGTGCTACCCCGTCC
TGCCCGGGGAAAAGCTAGAAGCCCCGGTTTGCTGCACCCATGAAACTCGGGTCCCCACAGCGTCTTGGCGGGGTG
GGGAGGGCGGCAGGATGGACGGGGCTGGCCAGAGGCGAGGAGGACGGGCGGACGGCGCCGCCTTCTCCCCTTTTC
CTTGGCCGACTCTAGGGAGCGATTGCCTCCCTCCCTCTGTGACCGGGTGGCCCAGCCAGCCCGTCGTCCCCACCC
AGAACCGTGCTCTGGGCCAAAGCCCGAAGAACCAGGCAGCGGGGGCCGGGGCAGGCGGACCCCCGGGCTCTCAG
CGCCCACCCGCTCCTCCGCACACAGCAGCTCGCACAGGCCTCCCACCTCTGCCTGTTGATTGATGCAGGGAGAAG
CCCGTCCCCCCCTCTCCCCTCTCCCCTCCCCTCCTGCACGCAACGCGCCCTCTCGGCCCTCCCTGTCCCCCTC
CTCTGTCTCGTCTCCCCATCTGGTCTGGAACCTGTTTGCAAGTGAAGCAATATCTCCGTGTTTTGTATATACAAC
CGCTCTTGTAGCCTTTGGTTTTTGTTAATGTAGAGAAACACAGATTCTTTATACACTTTGTAAGATTTACGCCAA
ACCCCAGCTCTCGATCTCTTCTTCTCCCTGTGGCCCCTGCGCTGTTGCCCCGTCCCCGTCACCCCGCCCGTTACT
GAAATGTATAATCTGACTTCCTGTACAGAAACCTGC
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FIGURE 5226

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CGCGCCGGGAACAGCCAGTCGGTGCCTAACGCGAGTGTATCTCGAGAGAGAAGCGATCAACAGCTGCCGGTCTGC
GCCTGCGCGCGGCGGGGGCGTGGCCCGGGGCGAGTGGGGCCAAGGAGGCAGCCGGGAGCGGCGGGCGCAGGTGTT
ACTGGTTGCGTCGGGTCACGTGGGCGCGCAGGCGCAGCGCGGTGCAGCCCGTTCGCTCACACAAAGCCCAGACGC
GGAGAAAATGGCGGCAGGGGTCGAAGCGGCGGCGGAGGTGGCGGCGACGGAGATCAAAATGGAGGAAGAGAGCGG
CGCGCCCGGCGTGCCGAGCGGCAACGGGGCTCCGGGCCCTAAGGGTGAAGGAGAACGACCTGCTCAGAATGAGAA
GAGGAAGGAGAAAAACATAAAAAGAGGAGGCAATCGCTTTGAGCCATATGCCAATCCAACTAAAAGATACAGAGC
CTTCATTACAAACATACCTTTTGATGTGAAATGGCAGTCACTTAAAGACCTGGTTAAAGAAAAAGTTGGTGAGGT
AACATACGTGGAGCTCTTAATGGACGCTGAAGGAAAGTCAAGGCTCTATAGTGTTGTTGAATTCAAGATGGAAGA
GAGCATGAAAAAAGCTGCGGAAGTCCTAAACAAGCATAGTCTGAGCGGAAGACCACTGAAAGTCAAAGAAGATCC
TGATGGTGAACATGCCAGGAGAGCAATGCAAAAGGCTGGAAGACTTGGAAGCACAGTATTTGTAGCAAATCTGGA
TTATAAAGTTGGCTGGAAGAAACTGAAGGAAGTATTTAGTATGGCTGGTGTGGTGGTCCGAGCAGACATTCTTGA
AGATAAAGATGGAAAAAGTCGTGGAATAGGCACTGTTACTTTTGAACAGTCCATTGAAGCTGTGCAAGCTATATC
TATGTTCAATGGCCAGCTGCTATTTGATAGACCAATGCACGTCAAGATGGATGAGAGGGCCTTACCAAAAGGAGA
TTTCTTCCCTCCTGAGCGTCCACAACAACTTCCCCATGGCCTTGGTGGTATTGGCATGGGGTTAGGACCAGGAGG
GCAACCCATTGATGCCAATCACCTGAATAAAGGCATCGGAATGGGAAACATAGGTCCCGCAGGAATGGGAATGGA
AGGCATAGGATTTGGAATAAATAAAATGGGAGGAATGGAGGGGCCCTTTGGTGGTGGTATGGAAAACATGGGTCG
ATTTGGATCTGGGATGAACATGGGCAGGATAAATGAAATCCTAAGTAATGCACTGAAGAGAGGAGAGATCATTGC
AAAGCAGGGAGGAGGTGGAGGTGGAGGAAGCGTCCCTGGGATCGAGAGGATGGGTCCTGGCATTGACCGCCTCGG
GGGTGCCGGCATGGAGCGCATGGGCGCGGGCCTGGGCCACGGCATGGATCGCGTGGGCTCCGAGATCGAGCGCAT
GGGCCTGGTCATGGACCGCATGGGCTCCGTGGAGCGCATGGGCTCCGGCATTGAGCGCATGGGCCCGCTGGGCCT
CGACCACATGGCCTCCAGCATTGAGCGCATGGGCCAGACCATGGAGCGCATTGGCTCTGGCGTGGAGCGCATGGG
TGCCGGCATGGGCTTCGGCCTTGAGCGCATGGCCGCTCCCATCGACCGTGTGGGCCAGACCATTGAGCGCATGGG
CTCTGGCGTGGAGCGCATGGGCCCTGCCATCGAGCGCATGGGCCTGAGCATGGAGCGCATGGTGCCCGCAGGTAT
GGGAGCTGGCCTGGAGCGCATGGGCCCCGTGATGGATCGCATGGCCACCGGCCTGGAGCGCATGGGCGCCAACAA
TCTGGAGCGGATGGGCCTGGAGCGCATGGGCGCCAACAGCCTCGAGCGCATGGGCCTGGAGCGCATGGGTGCCAA
CAGCCTCGAGCGCATGGGCCCCGCCATGGGCCCGGCCCTGGGCGCTGGCATTGAGCGCATGGGCCTGGCCATGGG
TGGCGGTGGCGGTGCCAGCTTTGACCGTGCCATCGAGATGGAGCGTGGCAACTTCGGAGGAAGCTTCGCAGGTTC
CTTTGGTGGAGCTGGAGGCCATGCTCCTGGGGTGGCCAGGAAGGCCTGCCAGATATTGTGAGAAATCTGCCATT
CGATTTCACATGGAAGATGCTAAAGGACAAATTCAACGAGTGCGGCCACGTGCTGTACGCCGACATCAAGATGGA
GAATGGGAAGTCCAAGGGGTGTGGTGTGGTTAAGTTCGAGTCGCCAGAGGTGGCCGAGAGAGCCTGCCGGATGAT
GAATGGCATGAAGCTGAGTGGCCGAGAGATTGACGTTCGAATTGATAGAAACGCTTAAGCAGTTGCCTTTTTTAA
ACATCGATACGAGACCTCTGAATTTGTATTTTTTCTTGTTAACCATTTTAATTTGTTGGCTGGATGTATAAAGAT
GTTTAAAAAATTCAGTTGCTTTTTGGGGTAATTTGAATTACTTTTTTAATGACTGGGGTTCCATTTGACTGTTTG
CATTGAGATTGCAATGTGCGCAATTTTTTTTGTAGTTGTGGCATCTTGTTGACATCGAATATGACTTTGATAATA
AATACCGGTTCCTG
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FIGURE 5227A

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AGTGAAGCGGAAGCCATTACTCTCTGGAGTCGATTGCCCCGAGACACATGGGCCAAGGAGGGGTCAGCGGCGAAT
TCTTTCGGCCTGTTGGGGACCCCTCGTGTCCCCACGCCAGACTGGACCTCCCGTATGAACTTCTCTTCGCATCGG
CGGCGGCTTCCGTCACCTCCGCTCCCCCGATCCTATTCCCAGTCGTATGCCAGCTTGGAGAGTCACGTGAGAGCA
AGAGAGTAGCTTTCTGGTTGTCCTGGTGCCCTGCTCAGGCAAACTGACTGCCATTCTCTGAGG ATG GCAGCTCTG
TCCCCCACATTTGCCACGTCCACCCAGGATTCCACCTGTCTCCAGGACTCAGAATTTCCTGTTTCTTCAAAAGAC
CATTCCTGTCCCCAGAATTTGGACCTGTTCGTGTGCAGTGGTCTGGAGCCTCACACACCCAGTGTTGGTTCCCAG
GAATCGGTGACTTTCCAAGATGTCGCTGTGGACTTTACCGAGAAGGAGTGGCCCTTGCTGGATTCTTCTCAGAGA
AAACTGTACAAAGATGTAATGCTGGAGAACTACAGCAACCTCACTTCACTGGGGTATCAGGTCGGCAAACCCAGC
CTCATCTCACACTTGGAGCAGGAGGAGGAGCCGAGGACAGAGGAGAGGGGCGCTCACCAGGGCGCTTGTGCAGAT
TGGGAGACTCCATCTAAAACCAAGTGGTCACTTCTTATGGAAGATATTTTTGGGAAGGAAACGCCCAGTGGTGTG
ACGATGGAAAGAGCCGGTCTTGGAGAGAAGTCCACTGAATACGCTCACTTGTTCGAAGTCTTTGGCATGGACCCT
CATCTCACTCAGCCAATGGGAAGGCACGCTGGCAAGAGGCCCTATCACCGCCGCGACTATGGGGTAGCGTTCAAG
GGCAGGCCGCACCTCACTCAGCACATGAGCATGTACGACGGGAGAAAAATGCATGAATGTCATCAGTGCCAAAAA
GCCTTCACCACGAGCGCGTCCCTCACACGGCACAGGAGAATCCACACCGGGGAGAAGCCTTACGAGTGCAGCGAC
TGCGGGAAAGCCTTCAACGACCCTTCAGCCCTTAGGAGCCACGCAAGAACTCACCTCAAAGAGAAGCCCTTTGAC
TGCAGTCAGTGTGGAAATGCATTCCGGACCCTCTCGGCCCTGAAAATCCACATGCGAGTTCACACTGGCGAGAGG
CCTTACAAGTGTGATCAGTGCGGGAAGGCTTACGGCCGGAGCTGCCACCTCATCGCACACAAGAGAACGCACACC
GGAGAGAGGCCCTACGAGTGTCACGACTGTGGGAAAGCTTTCCAGCACCCCTCCCACCTCAAAGAGCACGTGAGG
AATCACACGGGGGAGAAGCCCTACGCGTGCACGCAGTGCGGCAAAGCCTTCCGCTGGAAGTCCAACTTTAATTTG
CACAAGAAGAACCACATGGTGGAGAAGACCTACGAATGTAAAGAATGCGGGAAATCCTTTGGCGATCTCGTGTCC
CGGAGGAAACACATGAGGATTCACATCGTCAAGAAACCCGTGGAATGTCGGCAGTGCGGGAAGACCTTCCGAAAC
CAGTCCATCCTTAAGACTCACATGAACTCTCACACTGGAGAGAAACCATACGGGTGCGATCTCTGCGGGAAAGCT
TTCAGCGCGAGTTCAAACCTCACCGCACACAGGAAGATACACACGCAAGAGAGACGCTACGAATGCGCCGCCTGC
GGGAAAGTCTTCGGTGACTATTTATCCCGGCGGAGGCACATGAGCGTTCACCTTGTAAAGAAACGAGTTGAGTGT
AGGCAGTGTGGCAAGGCCTTCAGGAACCAGTCAACGCTGAAGACGCACATGCGAAGCCACACGGGGGAGAAACCG
TACGAATGCGATCACTGTGGGAAGGCCTTCAGCATAGGCTCCAACCTGAATGTGCACAGGCGGATCCACACCGGG
GAGAAGCCCTACGAATGCCTTGTCTGCGGGAAAGCCTTCAGCGACCACTCATCCCTCAGGAGCCACGTGAAAACT
CACCGGGGAGAGAAGCTCTTTGTGTCATCCGTGTGGAAAAGGCTCCAG TGA GCGCGCCTGCTTTAGAGACACAGG
ATGATTCAGACCGGAAACAGACCTCGTGGGTGTAAGAGGAAGCCTCTGTGAGCTCGCACCTTACTGGGTGCAAAA
GAATCCACGGAACTTGGGAGAAGTCCAGTTCCTGTAAAAACTGGGAAGACGAGGCGTTCTCATCCCATAGGAGGT
TTGTGAGAACTCACGCCGGGGGTGAAAATGTACGTCTGTAGCATGGAGAAGCCTTCAGGGTACATTCAGCTCTTA
ACAAACACAGGAGGACTTAATGGCAGCTTGGCATTTAATGTCAAAATCCAAGCCGTGGCATTTAATGTCAAAATG
ACTTCAGACCACTTCTAGCCTTCTGGGCCCATGAGTAATAATGAGCACACTAGGGAGCATCTCTGTAAACACAGT
GGCTGGGGAAACCCTTCCTAGTCTCACTTGATTCCTCATGACGGAAATCACACTAAAGAGAGAAATCAGTGAAGT
AAGGAACGTGGAAGGTCATGAATGGGCCGCAAACCACGGCCAGCTGCTTGTCTTTGTATGGCTTGCCAGCTAACA
ATAGTGGTTCCATCTTTAAGGAAGAAGAATGTTTGATGGAGAAAATTTGTGGCCAATGAAGTCTGAAATACTTCC
TGTCATCTGCCCCTTTCCAGAAAAACTTGGCCGACCCTTGGTCTACAGCACGGGTTCTCAGTCGGGCGACGATTT
GGCTGTCTAGGCGTCATTTGGCAATGTCTAGAGACATTTTTGGTAGTTAGAATGGGGGGAAGATACTCCTGACTT
GTAATAAGAAGACATCAGAGATGCTGCTAAGTCGGCTCCAGCACACAGGAGCCCCCCACAACGAAGAGTTAGTGC
CCCCAAACGTCACTGTTGCTGAGGTTGAAAATAATCATGCAGTCATTCCTCAATTACTGCCTGCAGCAATTCCTC
CATTTTTATGAATCTTGTGAGCACTTACGCTAGGAGAAATTTCTTTTACAAAACTTTTAAAATACAATTAGTGCT
GATAATTCCTATGTGGAAATGATTCCAGCCATGGTCCCCTCACTTGAGCATGTGAATATTCTCACGGAGAGAAGC
CCCAGCGAGATTTTCCGGTGAATACGGGATTGCACTTACTCTTTCATCACGGAAACAGACCCCCGAGAGAAGCC
CCAACGAGATTTTCCGGTGAATACGGGACTGCACGTACTCTCTCATCATGAAAACAGAGCCCGTTCATAAATTT
TTCATCTTTATTTTTAAGGTTATACTCCTCTAAATAACCCTTAAGCCTCATCAAGAAAGGTTTGTTTATAGTATT
TTTACTATAGCTTCATCCTTGATAACGTCCTAATTTCCTTCTGGACAACCTCCTTGACCAATGGCATATTGAGAT
CTATGTGACATGAGGATATTTCTCAGTACCACTTTGTTACTGGTACCTGATGCACACGGATTGCGACCAGAGCAT
GATGCCTCCATCAAGTGGTAATATGTTTGCAGCCTGCTGTCCAGCCAAGAGTGACAGATACTTCTAGTGACTTCC
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FIGURE 5227B

CCGGTATCCACTCTCATCTTCTTCCAATATCAAGAGAATCCAGGTTCTGTCAGATTAGTAAGGTGTGCTAATCTA
AATTTTAAAAAATCTCTTACAGGTTTTCTTGCAGCTGGTACCATCCATGTCTCACAGCCCTGGCCACTGACAGAT
CAGCAGATGTCACCACATGGGCTTCTGAGAAAGCTCTTGAATGGGGATCGTTCTTAAACATGAATTCCTCCCTGT
ATGTTTTGTTCTTTGCTTTACTTTTCACCTTGCAAAGAGATCCAGTACCTAGTATTGGAAGATCCACCTTAACGA
CCGTGCATATGAAAACCACAGTCTAAGGAAGTGACTGCAGAAAGCTCACAGCGACCCTGGCCTCCCCTGTGGCCT
CTTTGAGTGTCTGCAGCAGCCCTGGACTTCCAGACTTCTATCACATGAGAAAAAATAAAACTGATTATTGGTTTA
AGCTGC

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FIGURE 5228

MAALSPTFATSTQDSTCLQDSEFPVSSKDHSCPQNLDLFVCSGLEPHTPSVGSQESVTFQDVAVDFTEKEWPLLD
SSQRKLYKDVMLENYSNLTSLGYQVGKPSLISHLEQEEEPRTEERGAHQGACADWETPSKTKWSLLMEDIFGKET
PSGVTMERAGLGEKSTEYAHLFEVFGMDPHLTQPMGRHAGKRPYHRRDYGVAFKGRPHLTQHMSMYDGRKMHECH
QCQKAFTTSASLTRHRRIHTGEKPYECSDCGKAFNDPSALRSHARTHLKEKPFDCSQCGNAFRTLSALKIHMRVH
TGERPYKCDQCGKAYGRSCHLIAHKRTHTGERPYECHDCGKAFQHPSHLKEHVRNHTGEKPYACTQCGKAFRWKS
NFNLHKKNHMVEKTYECKECGKSFGDLVSRRKHMRIHIVKKPVECRQCGKTFRNQSILKTHMNSHTGEKPYGCDL
CGKAFSASSNLTAHRKIHTQERRYECAACGKVFGDYLSRRHMSVHLVKKRVECRQCGKAFRNQSTLKTHMRSHT
GEKPYECDHCGKAFSIGSNLNVHRRIHTGEKPYECLVCGKAFSDHSSLRSHVKTHRGEKLFVSSVWKRLQ

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FIGURE 5229

GTGTGCAATGGCTGCACACAGCAGCTTCCTTGGTAGTGTACGCAGCCTGTTGGTTGTATGGGTTGCTCTAAGGGA
CCTTGGAGACAGGCCTTTCCGATGGATGTTCATGTTTCTAACCTTGCACTACCACAATGTAGGCTCCAAACAGGC
ATGTGAGGTGCCTTTGGAAAGCCCCAGGGCACTGTGGCCAGGGTTGACATTGGCCAAGTTATCATGTCCATCCGC
ACCAAGCTGCAGAACAAGGAGCATGCGATTGAGGCCTTGCGCAGGGCCAAGTTCAAGTTTCCTGGCCGCCAGAAG
ATCTACATCTCAAAGAAGTGGGGCTTCACCAAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTGAGAAGCGG
CTCATCCCAGATGGCTGTGGGGTCAAGTACATCCCCAATCGTGGCCCTCTGGACAAGTGGCTGGCCCTGCACTCA
TGAGGGCTTCCAATGTGCTGCCCCCCCTATTAATACTCACCAATAAATTCTACTTCCTGTCCAAAAAAAAAA

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FIGURE 5230

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CTAGGTCGGGACGCCGGGCTAGGGGCGCGTCATGTGGCCGCTCACGGTCCCGCCGCCGCTGCTGCTGCTGCTGTG
CTCAGGCCTGGCCGGACAGACTCTCTTCCAGAACCCAGAAGAGGGCTGGCAGCTGTACACCTCAGCCCAGGCCCC
TGACGGGAAATGCATCTGCACGGCCGTGATCCCAGCGCAGAGTACCTGCTCTCGAGATGGCAGGAGTCGGGAGCT
GCGGCAACTGATGGAGAAGGTCCAGAACGTCTCCCAGTCCATGGAGGTCCTTGAGTTGCGGACGTATCGCGACCT
CCAGTATGTACGCGGCATGGAGACCCTCATGCGGAGCCTGGATGCGCGGCTCCGGGCAGCTGATGGGTCCCTCTC
GGCCAAGAGCTTCCAGGAGCTGAAGGACAGGATGACGGAACTGTTGCCCCTGAGCTCGGTCCTGGAGCAGTACAA
GGCAGACACGCGGACCATTGTACGCTTGCGGGAGGAGGTGAGGAATCTCTCCGGCAGTCTGGCGGCCATTCAGGA
GGAGATGGGTGCCTACGGGTATGAGGACCTGCAGCAACGGGTGATGGCCCTGGAGGCCCGGCTCCACGCCTGCGC
CCAGAAGCTGGGCTGTGGGAAGCTGACCGGGGTCAGTAACCCCATCACCGTTCGGGCCATGGGGTCCCGCTTCGG
CTCCTGGATGACTGACACGATGGCCCCCAGTGCGGATAGCCGGGTCTGGTACATGGATGGCTATTACAAAGGCCG
CCGGGTCCTGGAGTTCCGTACCCTGGGAGACTTCATCAAAGGCCAGAACTTTATCCAGCACCTGCTGCCCCAGCC
GTGGGCGGGCACGGGCCACGTGGTGTACAACGGCTCCCTGTTCTATAACAAGTACCAGAGCAACGTGGTGGTCAA
ATACCACTTCCGCTCGCGCTCTGTGCTGGTGCAGAGGAGCCTCCCGGGCGCCGGTTACAACAACACCTTCCCCTA
CTCCTGGGGCGGCTTCTCCGACATGGACTTCATGGTGGACGAGAGCGGGCTCTGGGCTGTGTACACCACCAACCA
GAACGCGGGCAACATCGTGGTCAGCCGGCTGGACCCGCACACCCTCGAGGTCATGCGGTCCTGGGACACCGGCTA
CCCCAAGCGCAGCGCTGGCGAGGCCTTCATGATCTGCGGTGTGCTCTACGTGACCAACTCCCACCTGGCTGGGGC
CAAGGTCTACTTCGCCTATTTTACCAACACGTCCAGTTACGAGTACACGGACGTGCCCTTCCACAACCAGTATTC
CCACATCTCGATGCTGGATTACAACCCCCGGGAGCGCGCCCTCTATACCTGGAACAACGGCCACCAGGTGCTCTA
CAATGTCACCCTGTTTCACGTCATCAGCACCTCTGGGGACCCCTGAGCCAATGCTGTGGCTCGGGCTGCTGCCTG
GGGGGCCTCCGGGGGCTGGGGGCCCTTTTCATTCTGCCTGTGTCCCTCAAGGGTGATCTCTCTGTCTCTGTCACG
CCCTTTCTCCCCGCCTTTTTGCTGGGCTTTTGTTCTCTGCCTATGTATTTCTGTCTATTTTTTCAATTTCCCCTC
TTCTCCTTTATTGATCTCTGCTTTTAATACACCACTTCTTTCTTTCTGCCTTTTTATGGATGTCTTTTTCTTTTT
ATGGCTCTGGTTCTCCAGTTCTTTCCGTCTCTGCCTCTCTCTGTCTCTCTCTCTGTCCTTCCACCCCTCCCTC
CTTGCTTCCCACCCATTCCTCATCCCTCACTCCCACCCCCACCCCCACCCCCAGGAGTTGAGTGCATGGATCTGT
TTCTTTTTTTATTTACACTTTTTCTTTCCGGTTTGCCGGAATAAACAGGACCTTTGACATTTGAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 5231

MWPLTVPPPLLLLLCSGLAGQTLFQNPEEGWQLYTSAQAPDGKCICTAVIPAQSTCSRDGRSRELRQLMEKVQNV
SQSMEVLELRTYRDLQYVRGMETLMRSLDARLRAADGSLSAKSFQELKDRMTELLPLSSVLEQYKADTRTIVRLR
EEVRNLSGSLAAIQEEMGAYGYEDLQQRVMALEARLHACAQKLGCGKLTGVSNPITVRAMGSRFGSWMTDTMAPS
ADSRVWYMDGYYKGRRVLEFRTLGDFIKGQNFIQHLLPQPWAGTGHVVYNGSLFYNKYQSNVVVKYHFRSRSVLV
QRSLPGAGYNNTFPYSWGGFSDMDFMVDESGLWAVYTTNQNAGNIVVSRLDPHTLEVMRSWDTGYPKRSAGEAFM
ICGVLYVTNSHLAGAKVYFAYFTNTSSYEYTDVPFHNQYSHISMLDYNPRERALYTWNNGHQVLYNVTLFHVIST
SGDP

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FIGURE 5232

AGGAGGCCTCGTGGAGGACACAGCAGC**ATG**GGACAGTCAGGGAGGTCCCGGCACCAGAAGCGCGCCCGCGCCCAG
GCGCAGCTCCGCAACCTCGAGGCCTATGCCGCGAACCCGCACTCGTTCGTGTTCACGCGAGGCTGCACGGGTCGC
AACATCCGGCAGCTCAGCCTGGACGTGCGGCGGGTCATGGAGCCGCTCACTGCCAGCCGTCTGCAGGTTCGTAAG
AAGAACTCGCTGAAGGACTGCGTGGCAGTGGCTGGGCCCCTCGGGGTCACACACTTTCTGATCCTGAGCAAAACA
GAGACCAATGTCTACTTTAAGCTGATGCGCCTCCCAGGAGGCCCCACCTTGACCTTCCAGGTGAAGAAGTACTCG
CTGGTGCGTGATGTGGTCTCCTCACTGCGCCGGCACCGCATGCACGAGCAGCAGTTTGCCCACCCACCCCTCCTG
GTACTCAACAGCTTTGGCCCCCATGGTATGCATGTGAAGCTCATGGCCACCATGTTCCAGAACCTGTTCCCCTCC
ATCAACGTGCACAAGGTGAACCTGAACACCATCAAGCGCTGCCTCCTCATCGACTACAACCCCGACTCCCAGGAG
CTGGACTTCCGCCACTATAGCATCAAAGTTGTTCCTGTGGGCGCGAGTCGCGGGATGAAGAAGCTGCTCCAGGAG
AAGTTCCCCAACATGAGCCGCCTGCAGGACATCAGCGAGCTGCTGGCCACGGGCGCGGGGCTGTCGGAGAGCGAG
GCAGAGCCTGACGGCGACCACAACATCACAGAGCTGCCTCAGGCTGTCGCTGGCCGTGGCAACATGCGGGCCCAG
CAGAGTGCAGTGCGGCTCACCGAGATCGGCCCGCGGATGACACTGCAGCTCATCAAGGTCCAGGAGGGCGTCGGG
GAGGGCAAAGTGATGTTCCACAGTTTTGTGAGCAAGACGGAGGAGGAGCTGCAGGCCATCCTGGAAGCCAAGGAG
AAGAAGCTGCGGCTGAAGGCGCAGAGGCAGGCCCAGCAGGCCCAGAATGTGCAGCGCAAGCAGGAGCAGCGGGAG
GCCCACAGAAAGAAGAGCCTGGAGGGCATGAAGAAGGCACGGGTCGGGGGGTAGTGATGAAGAGGCCTCTGGGATC
CCTTCAAGGACGGCGAGCCTGGAGTTGGGTGAGGACGATGATGAACAGGAAGATGATGACATCGAGTATTTCTGC
CAGGCGGTGGGCGAGGCGCCCAGTGAGGACCTGTTCCCCGAGGCCAAGCAGAAACGGCTTGCCAAGTCTCCAGGG
CGGAAGCGGAAGCGGTGGGAAATGGATCGAGGCAGGGGTCGCCTTTGTGACCAGAAGTTTCCCAAGACCAAGGAC
AAGTCCCAGGGAGCCCAGGCCAGGCGGGGGCCCAGAGGGGCTTCCCGGGATGGTGGGCGAGGCCGGGGCCGGGGC
CGCCCAGGGAAGAGAGTGGCC**TGA**GCCCAAGCCGCACCGGAGCAGCGGCTGGATTGAACGCCCCAGATTGGGGCC
CGAGATGTGGCCCTCGGTTTCCTTTCATAAAGGAGTTGTGTCCCCAGCCCTTCCACTCCAGTAAAGAACTGAATT
GGC

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FIGURE 5233

MGQSGRSRHQKRARAQAQLRNLEAYAANPHSFVFTRGCTGRNIRQLSLDVRRVMEPLTASRLQVRKKNSLKDCVA
VAGPLGVTHFLILSKTETNVYFKLMRLPGGPTLTFQVKKYSLVRDVVSSLRRHRMHEQQFAHPPLLVLNSFGPHG
MHVKLMATMFQNLFPSINVHKVNLNTIKRCLLIDYNPDSQELDFRHYSIKVVPVGASRGMKKLLQEKFPNMSRLQ
DISELLATGAGLSESEAEPDGDHNITELPQAVAGRGNMRAQQSAVRLTEIGPRMTLQLIKVQEGVGEGKVMFHSF
VSKTEEELQAILEAKEKKLRLKAQRQAQQAQNVQRKQEQREAHRKKSLEGMKKARVGGSDEEASGIPSRTASLEL
GEDDDEQEDDDIEYFCQAVGEAPSEDLFPEAKQKRLAKSPGRKRKRWEMDRGRGRLCDQKFPKTKDKSQGAQARR
GPRGASRDGGRGRGRGRPGKRVA

5680/6881
FIGURE 5234

CTTTTTGCG**ATG**CCTACTGGGGACTTTGATTCGAAGCCCAGTTGGGCCGACCAGGTGGAGGAGGAGGGGGAGGAC
GACAAATGTGTCACCAGCGAGCTCCTCAAGGGGATCCCTCTGGCCACAGGTGACACCAGCCCAGAGCCAGAGCTA
CTGCCGGGAGCTCCACTGCCGCCTCCCAAGGAGGTCATCAACGGAAACATAAAGACAGTGACAGAGTACAAGATA
GATGAGGATGGCAAGAAGTTCAAGATTGTCCGCACCTTCAGGATTGAGACCCGGAAGGCTTCAAAGGCTGTCGCA
AGGAGGAAGAACTGGAAGAAGTTCGGGAACTCAGAGTTTGACCCCCCCGGACCCAATGTGGCCACCACCACTGTC
AGTGACGATGTCTCTATGACGTTCATCACCAGCAAAGAGGACCTGAACTGCCAGGAGGAGGAGGACCCTATGAAC
AAACTCAAGGGCCAGAAGATCGTGTCCTGCCGCATCTGCAAGGGCGACCACTGGACCACCCGCTGCCCCTACAAG
GATACGCTGGGGCCCATGCAGAAGGAGCTGGCCGAGCAGCTGGGCCTGTCTACTGGCGAGAAGGAGAAGCTGCCG
GGAGAGCTAGAGCCGGTGCAGGCCACGCAGAACAAGACAGGGAAGTATGTGCCGCCGAGCCTGCGCGACGGGGCC
AGCCGCCGCGGGGAGTCCATGCAGCCCAACCGCAGAGCCGACGACAACGCCACCATCCGTGTCACCAACTTGTCA
GAGGACACGCGTGAGACCGACCTGCAGGAGCTCTTCCGGCCTTTCGGCTCCATCTCCCGCATCTACCTGGCTAAG
GACAAGACCACTGGCCAATCCAAGGGCTTCGCCTTCATCAGCTTCCACCGCCGCGAGGATCGTGCGCGTGCCATT
GCCGGGGTGTCCGGCTTTGGCTACGACCACCTCATCCTCAACGTCGAGTGGGCCAAGCCGTCCACCAAC**TAA**GCC
AGCTGCCACCGTGTACTCGGTCCGGGACCCTTGGCGACAGAAGACAGCCTCCGAGAGCGCGGGCTCCAAGGGCAA
TAAAGCAGCTCCACTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5681/6881

FIGURE 5235

MPTGDFDSKPSWADQVEEEGEDDKCVTSELLKGIPLATGDTSPEPELLPGAPLPPPKEVINGNIKTVTEYKIDED
GKKFKIVRTFRIETRKASKAVARRKNWKKFGNSEFDPPGPNVATTTVSDDVSMTFITSKEDLNCQEEEDPMNKLK
GQKIVSCRICKGDHWTTRCPYKDTLGPMQKELAEQLGLSTGEKEKLPGELEPVQATQNKTGKYVPPSLRDGASRR
GESMQPNRRADDNATIRVTNLSEDTRETDLQELFRPFGSISRIYLAKDKTTGQSKGFAFISFHRREDRARAIAGV
SGFGYDHLILNVEWAKPSTN

5682/6881
FIGURE 5236

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TGTGAGGTCGCGTTCCCCAGTGTTACGGAGGGTCCTTGAGGCAGGAGTGAAAATTGGGTCTGGGGGTTAGTCCTG
GGGTGGAGGTCTGGGCACGCCGGGTCGGACCCCCTCCATCTTCGGTTTTGCACACCCCGCTTTCCAGCGCGGAGT
CGCGGCGGGTAGGGCGGCGTCGCGTGCGTGACGTCATCCAGCGGCGCCTCGCGAGGCTCCAGTGGCCTTGACCTC
CCGCGGCGTGGGAGGCTGCGCGGCGATGCTGCAGTTCGTCCGGGCCGGGGCGCGGGCCTGGCTTCGGCCTACCGG
CAGCCAGGGCCTGAGTTCCCTGGCGGAAGAGGCAGCGCGTGCGACCGAGAACCCGGAGCAGGTGGCGAGCGAGGG
TCTCCCGGAGCCCGTGCTGCGCAAAGTCGAGCTCCCGGTACCCACTCATCGACGCCCAGTGCAGGCCTGGGTCGA
GTCCTTGCGGGGCTTCGAGCAGGAGCGCGTGGGCCTGGCCGACCTGCACCCCGATGTTTTCGCCACCGCGCCCAG
GCTGGACATACTGCACCAGGTTGCTATGTGGCAGAAGAACTTCAAGAGAATTAGCTATGCCAAGACCAAGACGAG
AGCCGAGGTGCGGGGCGGTGGCCGGAAGCCTTGGCCGCAGAAAGGCACTGGGCGGGCCCGGCATGGCAGCATCCG
CTCTCCGCTCTGGCGAGGAGGAGGTGTTGCCCATGGCCCCCGGGGCCCCACAAGTTACTACTACATGCTGCCCAT
GAAGGTGCGGGCGCTGGGTCTCAAAGTGGCACTGACCGTCAAGCTGGCCCAGGACGACCTGCACATCATGGACTC
CCTAGAGCTGCCCACCGGAGACCCACAGTACCTGACAGAGCTGGCGCACTACCGCCGCTGGGGGGACTCCGTACT
CCTCGTGGACTTAACACACGAGGAGATGCCACAGAGCATCGTGGAGGCCACCTCTAGGCTTAAGACCTTCAACTT
GATCCCGGCTGTTGGCCTAAATGTGCACAGCATGCTCAAGCACCAGACGCTGGTCCTGACGCTGCCCACCGTCGC
CTTCCTGGAGGACAAGCTGCTCTGGCAGGACTCACGTTACAGACCCCTCTACCCCTTCAGCCTGCCCTACAGCGA
CTTCCCCCGACCCCTACCCCACGCTACCCAGGGCCCAGCGGCCACCCCGTACCACTGTTGATGTGAAGCACCTCT
TCTGAGCCAGGCCGAGCCCCTGGCCGACTTGGGAGCCTCAGGCCCACGCCCACCCTTCGAGGAAGGTGTCACCTG
GACCCCTTCATTCCACGGAGGAAGCTGAGGCCACAGGGAGCGGCCATCGCCATTGGGAAGGGGCGACTCCACGGA
AAGCCCAGACGGGCTTCTGCATCCATTCCCTCTTTTTGTTTTTAAAATAAATTGTATTTTTG
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5683/6881
FIGURE 5237

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GGCACGAGGCCGCCACCCGAGCCGGAGCGGGCTGGGCCGCCAAGGCAAGATGGTGGACTACAGCGTGTGGGACCA
CATTGAGGTGTCTGATGATGAAGACGAGACGCACCCCAACATCGACACGGCCAGTCTCTTCCGCTGGCGGCATCA
GGCCCGGGTGGAACGCATGGAGCAGTTCCAGAAGGAGAAGGAGGAACTGGACAGGGGCTGCCGCGAGTGCAAGCG
CAAGGTGGCCGAGTGCCAGAGGAAACTGAAGGAGCTGGAGGTGGCCGAGGGCGGCAAGGCAGAGCTGGAGCGCCT
GCAGGCCGAGGCACAGCAGCTGCGCAAGGAGGAGCGGAGCTGGGAGCAGAAGCTGGAGGAGATGCGCAAGAAGGA
GAAGAGCATGCCCTGGAACGTGGACACGCTCAGCAAAGACGGCTTCAGCAAGAGCATGGTAAATACCAAGCCCGA
GAAGACGGAGGAGGACTCAGAGGAGGTGAGGGAGCAGAAACACAAGACCTTCGTGGAAAAATACGAGAAACAGAT
CAAGCACTTTGGCATGCTTCGCCGCTGGGATGACAGCCAAAAGTACCTGTCAGACAACGTCCACCTGGTGTGCGA
GGAGACAGCCAATTACCTGGTCATTTGGTGCATTGACCTAGAGGTGGAGGAGAAATGTGCACTCATGGAGCAGGT
GGCCCACCAGACAATCGTCATGCAATTTATCCTGGAGCTGGCCAAGAGCCTAAAGGTGGACCCCCGGGCCTGCTT
CCGGCAGTTCTTCACTAAGATTAAGACAGCCGATCGCCAGTACATGGAGGGCTTCAACGACGAGCTGGAAGCCTT
CAAGGAGCGTGTGCGGGGCCGTGCCAAGCTGCGCATCGAGAAGGCCATGAAGGAGTACGAGGAGGAGGAGCGCAA
GAAGCGGCTCGGCCCCGGCGGCCTGGACCCCGTCGAGGTCTACGAGTCCCTCCCTGAGGAACTCCAGAAGTGCTT
CGATGTGAAGGACGTGCAGATGCTGCAGGACGCCATCAGCAAGATGGACCCCACCGACGCAAAGTACCACATGCA
GCGCTGCATTGACTCTGGCCTCTGGGTCCCCAACTCTAAGGCCAGCGAGGCCAAGGAGGGAGAGGAGGCAGGTCC
TGGGGACCCATTACTGGAAGCTGTTCCCAAGACGGGCGATGAGAAGGATGTCAGTGTGTGACCTGCCCCAGCTAC
CACCGCCACCTGCTTCCAGGCCCCTATGTGCCCCTTTTCAGAAAACAGATAGATGCCATCTCGCCCGCTCCTGAC
TTCCTCTACTTGCGCTGCTCGGCCCAGCCTGGGGGGGCCCGCCCAGCCCTCCCTGGCCTCTCCACTGTCTCCACTC
TCCAGCGCCCATTCAAGTCTCTGCTTTGAGTCAAGGGGCTTCACTGCCTGCAGCCCCCCATCAGCATTATGCCAA
AGGCCCGGGGGTCCGGGGAAGGGCAGAGGTCACCAGGCTGGTCTACCAGGTAGTTGGGGAGGGTCCCCAGCCAAG
GGGCCGGCTCTCGTCACTGGGCTCTGTTTTCACTGTTCGTCTGCTGTCTGTGTCTTCTATTTGGCAAACAGCAAT
GATCTTCCAATAAAAGATTTCAGATGCTCAAAAAAAAAAAAAAAAAAAAA
```

FIGURE 5238

MVDYSVWDHIEVSDDEDETHPNIDTASLFRWRHQARVERMEQFQKEKEELDRGCRECKRKVAECQRKLKELEVAE
GGKAELERLQAEAQQLRKEERSWEQKLEEMRKKEKSMPWNVDTLSKDGFSKSMVNTKPEKTEEDSEEVREQKHKT
FVEKYEKQIKHFGMLRRWDDSQKYLSDNVHLVCEETANYLVIWCIDLEVEEKCALMEQVAHQTIVMQFILELAKS
LKVDPRACFRQFFTKIKTADRQYMEGFNDELEAFKERVRGRAKLRIEKAMKEYEEEERKKRLGPGGLDPVEVYES
LPEELQKCFDVKDVQMLQDAISKMDPTDAKYHMQRCIDSGLWVPNSKASEAKEGEEAGPGDPLLEAVPKTGDEKD
VSV

FIGURE 5239

CGCGCAGCGATGGAGGCGCCGGGGCTCGGGCGGTGGAGGCGGAGCCGGAGCGCGGCCATGGCGGGGTCCCTGAGT
GCCAGAGGTGGTGGTGTTGCTTATCTTCTGGAACCCCATGCAGCCAGATCCCAGGCCTAGCGGGGCTGGGGCCTG
CTGCCGATTCCTGCCCCTGCAGTCACAGTGCCCTGAGGGGGCAGGGGACGCGGTGATGTACGCCTCCACTGAGTG
CAAGGCGGAGGTGACGCCCTCCCAGCATGGCAACCGCACCTTCAGCTACACCCTGGAGGATCATACCAAGCAGGC
CTTTGGCATCATGAACGAGCTGCGGCTCAGCCAGCAGCTGTGTGACGTCACACTGCAGGTCAAGTACCAGGATGC
ACCGGCCGCCCAGTTCATGGCCCACAAGGTGGTGCTGGCCTCATCCAGCCCTGTCTTCAAGGCCATGTTCACCAA
CGGGCTGCGGGAGCAGGGCATGGAGGTGGTGTCCATTGAGGGTATCCACCCCAAGGTCATGGAGCGCCTCATTGA
ATTCGCCTACACGGCCTCCATCTCCATGGGCGAGAAGTGTGTCCTCCACGTCATGAACGGTGCTGTCATGTACCA
GATCGACAGCGTTGTCCGTGCCTGCAGTGACTTCCTGGTGCAGCAGCTGGACCCCAGCAATGCCATCGGCATCGC
CAACTTCGCTGAGCAGATTGGCTGTGTGGAGTTGCACCAGCGTGCCCGGGAGTACATCTACATGCATTTTGGGGA
GGTGGCCAAGCAAGAGGAGTTCTTCAACCTGTCCCACTGCCAACTGGTGACCCTCATCAGCCGGGACGACCTGAA
CGTGCGCTGCGAGTCCGAGGTCTTCCACGCCTGCATCAACTGGGTCAAGTACGACTGCGAACAGCGACGGTTCTA
CGTCCAGGCGCTGCTGCGGGCCGTGCGCTGCCACTCGTTGACGCCGAACTTCCTGCAGATGCAGCTGCAGAAGTG
CGAGATCCTGCAGTCCGACTCCCGCTGCAAGGACTACCTGGTCAAGATCTTCGAGGAGCTCACCCTGCACAAGCC
CACGCAGGTGATGCCCTGCCGGGCGCCCAAGGTGGGCCGCCTGATCTACACCGCGGGCGGCTACTTCCGACAGTC
GCTCAGCTACCTGGAGGCTTACAACCCCAGTGACGGCACCTGGCTCCGGTTGGCGGACCTGCAGGTGCCGCGGAG
CGGCCTGGCCGGCTGCGTGGTGGGCGGGCTGTTGTACGCCGTGGGCGGCAGGAACAACTCGCCCGACGGCAACAC
CGACTCCAGCGCCCTGGACTGTTACAACCCCATGACCAATCAGTGGTCGCCCTGCGCCCCCATGAGCGTGCCCCG
TAACCGCATCGGGGTGGGGGTCATCGATGGCCACATCTATGCCGTCGGCGGCTCCCACGGCTGCATCCACCACAA
CAGTGTGGAGAGGTATGAGCCAGAGCGGGATGAGTGGCACTTGGTGGCCCCAATGCTGACACGAAGGATCGGGGT
GGGCGTGGCTGTCCTCAATCGTCTCCTTTATGCCGTGGGGGGCTTTGACGGGACAAACCGCCTTAATTCAGCTGA
GTGTTACTACCCAGAGAGGAACGAGTGGCGAATGATCACAGCAATGAACACCATCCGAAGCGGGGCAGGCGTCTG
CGTCCTGCACAACTGTATCTATGCTGCTGGGGGCTATGATGGTCAGGACCAGCTGAACAGCGTGGAGCGCTACGA
TGTGGAAACAGAGACGTGGACTTTCGTAGCCCCCATGAAGCACCGGCGAAGTGCCCTGGGGATCACTGTCCACCA
GGGGAGAATCTACGTCCTTGGAGGCTATGATGGTCACACGTTCCTGGACAGTGTGGAGTGTTACGACCCAGATAC
AGACACCTGGAGCGAGGTGACCCGAATGACATCGGGCCGGAGTGGGGTGGGCGTGGCTGTCACCATGGAGCCCTG
CCGGAAGCAGATTGACCAGCAGAACTGTACCTGTTGAGGCACTTTTGTTTCTTGGGCAAAAATACAGTCCAATGG
GGAGTATCATTGTTTTTGTACAAAAACCGGGACTAAAAGAAAAGACAGCACTGCAAATAACCCATCTTCCGGGAA
GGGGAGGCCAGGATGCCTCAGTGTTAAAATGACATCTCAAAAGAAGTCCAAAGCGGGAATCATGTGCCCCTCAGCG
GAGCCCCGGGAGTGTCCAAGACAGCCTGGCTGGGAAAGGGGGTGTGGAAAGAGCAGGCTTCCAGGAGAGAGGCCC
CCAAACCCTCTGGCCGGGTAATAGGCCTGGGTCCCACTCACCCATGCCGGCAGCTGTCACCATGTGATTTATTCT
TGGATACCTGGGAGGGGGCCAATGGGGGCCTCAGGGGGAGGCCCCCTCTGGAAATGTGGTTCCCAGGGATGGGCC
TGTACATAGAAGCCACCGGATGGCACTTCCCCACCGGATGGACAGTTATTTTGTTGATAAGTAACCCTGTAATTT
TCCAAGGAAAATAÄAGAACAGACTAACTAGTGTCTTTC

FIGURE 5240

TTTTACAAAACGCTCTCCTTGTTGAAGAAGAAGGACCCCCGCATTTATCAGAAAGATGCCACCTTCTATAACAGA
ACAGCATCGTCATCAGACAGTGAGGAGGACCCAGAAGCCTTGGAGAAGCAGAAGAAAGTGCGGCCCATGTACCTG
AAGGACTACGAGAGGAAGGTTATCTTGGAGAAGGCAGGCAAATATGTTGATGAGGAGAACTCAGACGGGGAGACT
TCCAATCACAGACTCCAGGAGACATCGTCGCAAAGTTATGTGGAGGAACAGAAACAGCTCAAGGAAAGCTTCCGG
GCATTTGTGGAGGACAGTGAGGACGAGGACGGCGCTGGGGAGGGCGGCTCCAGTTTGCTGCAGAAACGTGCCAAA
ACCAGGCAGGAGAAGGCCCAGGAGGAGGCCGACTACATCGAGTGGCTGAAGGGACAGAAAGAGATTCGGAACCCA
GATTCCCTGAAGGAACTGACGCATCTCAAGGAATACTGGAACGACCCTGAGTTGGATGAAGGGGAGCGGTTCCTG
CGGGATTACATCCTCAACAAACGCTATGAGGAGGAGGAAGAGGAGGAGGAAGATGAAGAGGAAATGGAGGAAGAG
GAGGGGGTCCACGGTCCCCCAGTCCAGCTGGCTGTGGACGACTCCTCAGACGAAGGGGAGCTGTTTCTGAAGAAA
CAGGAGGACTTTGAACAGAAGTACAATTTCCGTTTCGAGGAGCCGGACTCAGCATCGGTCAAGACCTACCCACGC
AGCATCGCGTCCTCCGTGCGCCGTAAGGATGAGCGCAGAAAGGAGAAGAGGGAAGAGACTCGGGAGCGAAAGAAG
AGGGAGAAAGCAAAGAAGCAGGAAGAGCTCAAGCAGCTGAAGAACCTGAAGAGGAAGGAGATTCTGGCCAAGCTG
GAGAAGCTGCGGAAAGTAACAGGCAACGAGATGCTGGGCCTCGAGGAGGGGGACCTTGAAGACGACTTCGACCCT
GCCCAGCACGACCAGCTCATGCAGAAGTGCTTTGGGGACGAGTACTACGGGGCCGTGGAGGAGGAGAAGCCACAA
TTTGAGGAAGAAGAAGGGCTTGAAGACGACTGGAACTGGGACACGTGGGACGGGCCTGAGCAGGAGGGAGACTGG
AGCCAGCAGGAGCTGCACTGTGAGGACCCCAACTTCAACATGGACGCCGACTACGACCCCAGCCAGCCGAGGAAG
AAAAAGCGCGAGGCCCCCTTGACGGGCAAGAAGAAGCGCAAGTCGCCCTTCGCCGCGGCCGTGGGGCAGGAGAAG
CCCGTGTTTGAACCCGGGGACAAGACGTTCGAGGAGTACCTGGATGAGTATTACCGGCTGGACTACGAGGACATC
ATCGACGACCTGCCCTGTCGCTTCAAGTACCGCACAGTGGTGCCCTGTGACTTTGGCCTCAGCACTGAGGAGATC
CTCGCTGCTGACGATAAGGAGCTGAACCGGTGGTGCTCCCTAAAGAAGACCTGCATGTACAGGTCAGAGCAGGAG
GAGCTGCGGGACAAGCGGGCGTACAGCCAGAAGGCCCAGAACTCATGGAAAAAGCGGCAGGTCTTCAAGTCACTC
TGCCGAGAAGAGGCAGAGACACCTGCGGAAGCCACAGGGAAGCCACAGAGAGATGAAGCCGGCCCACAGAGGCAG
CTGCCAGCCCTTGATGGCAGCTTGATGGGGCCGGAGAGTCCCCCAGCACAGGAAGAGGAAGCCCCTGTATCACCC
CACAAGAAGCCAGCCCCCCAGAAGCGGAGGAGGGCCAAGAAGGCACGGCTGCTGGGCCCCACTGTGATGCTTGGT
GGATGCGAGTTCAGCCGCCAGAGACTGCAGGCCTTTGGCCTCAACCCCAAACGGCTGCACTTCCGCCAGCTGGGC
CGGCAGCGGAGGAAACAACAGGGGCCCAAGAACAGCTCCTGAGCACCAGGGAGCAGGCAGGGGCCTCAGGCTCCT
CTCCTCAAATCAAGCCCTGGACAGGTCTCGCACCCACAAGTACTATCTGCTGCAGAGATCCTCTCATCTGTGGCC
AGGCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGAAAGGATCACTTGAGCCCAGGAATTGGAGACCAGC
GTGGGCAACTTAGCGAGACTCCATCTCTACAAAATGTGGTGACACATGCCTGTAGTCCCAGCTACTCAGGAGGCT
GGGGAAGGAAGATCACTTAAGGCCATGAGTTTGAGGCTACAGAGAGCTATGATTGCACCACTGCACTCCAGCCTG
GGCAACAAAGCAAGACCCTGTCTCTTG

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FIGURE 5241

GGCGCTTCCGCAGGAAGAAGGAAGCGGCGCCGCCATCGCCTCCCGGCGCTCCCTCCCCGACTCCTAAGTCCTTCG
GCCGCCACC**ATG**TCCGCCTCGGCTGTCTTCATTCTGGACGTTAAGGGCAAGCCATTGATCAGCCGCAACTACAAG
GGCGATGTGGCCATGAGCAAGATTGAGCACTTCATGCCTTTGCTGGTACAGCGGGAGGAGGAAGGCGCCCTGGCC
CCGCTGCTGAGCCACGGCCAGGTCCACTTCCTATGGATCAAACACAGCAACCTCTACTTGGTGGCCACCACATCG
AAGAATGCCAATGCCTCCCTGGTGTACTCCTTCCTGTATAAGACAATAGAGGTATTCTGCGAATACTTCAAGGAG
CTGGAGGAGGAGAGCATCCGGGACAACTTTGTCATCGTCTACGAGTTGCTGGACGAGCTCATGGACTTTGGCTTC
CCGCAGACCACCGACAGCAAGATCCTGCAGGAGTACATCACTCAGCAGAGCAACAAGCTGGAGACGGGCAAGTCA
CGGGTGCCACCCACTGTCACCAACGCTGTGTCCTGGCGCTCCGAGGGTATCAAGTATAAGAAGAACGAGGTCTTC
ATTGATGTCATAGAGTCTGTCAACCTGCTGGTCAATGCCAACGGCAGCGTCCTTCTGAGCGAAATCGTCGGTACC
ATCAAGCTCAAGGTGTTTCTGTCAGGAATGCCAGAGCTGCGGCTGGGCCTCAATGACCGCGTGCTCTTCGAGCTC
ACTGGCCGCAGCAAGAACAAATCAGTAGAGCTGGAGGATGTAAAATTCCACCAGTGCGTGCGGCTCTCTCGCTTT
GACAACGACCGCACCATCTCCTTCATCCCGCCTGATGGTGACTTTGAGCTCATGTCATACCGCCTCAGCACCCAG
GTCAAGCCACTGATCTGGATTGAGTCTGTCATTGAGAAGTTCTCCCACAGCCGCGTGGAGATCATGGTCAAGGCC
AAGGGGCAGTTTAAGAAACAGTCAGTGGCCAACGGTGTGGAGATATCTGTGCCTGTACCCAGCGATGCCGACTCC
CCCAGATTCAAGACCAGTGTGGGCAGCGCCAAGTATGTGCCGGAGAGAAACGTCGTGATTTGGAGTATTAAGTCT
TTCCCGGGGGGGCAAGGAGTACTTGATGCGAGCCCACTTTGGCCTCCCCAGTGTGGAAAAGGAAGAGGTGGAGGGC
CGGCCCCCCATCGGGGTCAAGTTTGAGATCCCCTACTTCACCGTCTCTGGGATCCAGGTCCGATACATGAAGATC
ATTGAGAAAAGTGGTTACCAGGCCCTGCCCTGGGTTCGCTACATCACCCAGAGTGGCGATTACCAACTTCGTACC
AGC**TAG**AAGGGAGAAGAGATGGGGGCTTGAACACGGGGCTTCCTTACAGCCCCGGATGCAGATTTTAGAGGGAGG
GCAGGTGCGGGCTGTGTGTGTCTGTGTGAGGGCAGGTCCTGGACTTGGCAGTTTCTTGCTCCCAGCACCCGCCCC
TTCCTCACCTCTTCCTTATTCCATAGGCTGGGAGAGAAACTCTCTGCTTCCCTCGCCCTTGGAGCTTTCCCCATC
CCCCTGATTTTATATGAAGAAATAGAAGAGGGGCTTGAAGTCCCCCTCGCGAGTGCCTTCTTGCAATTACCTGCC
TTAGCGGGTGTTGCGGGTCCCTCCTTCACAGCCGCTGAGCCCAGAGGTCCCGCTGGCCCCTCCTCTGAATTTTAG
GATGTCATTAAAAAGATGAATCTA

5688/6881
FIGURE 5242

MSASAVFILDVKGKPLISRNYKGDVAMSKIEHFMPLLVQREEEGALAPLLSHGQVHFLWIKHSNLYLVATTSKNA
NASLVYSFLYKTIEVFCEYFKELEEESIRDNFVIVYELLDELMDFGFPQTTDSKILQEYITQQSNKLETGKSRVP
PTVTNAVSWRSEGIKYKKNEVFIDVIESVNLLVNANGSVLLSEIVGTIKLKVFLSGMPELRLGLNDRVLFELTGR
SKNKSVELEDVKFHQCVRLSRFDNDRTISFIPPDGDFELMSYRLSTQVKPLIWIESVIEKFSHSRVEIMVKAKGQ
FKKQSVANGVEISVPVPSDADSPRFKTSVGSAKYVPERNVVIWSIKSFPGGKEYLMRAHFGLPSVEKEEVEGRPP
IGVKFEIPYFTVSGIQVRYMKIIEKSGYQALPWVRYITQSGDYQLRTS

FIGURE 5243

ATGGGGGACGAGCGGCCCCACTACTACGGGAAACACGGAACGCCACAGAAGTATGATCCCACTTTCAAAGGACCC
ATTTACAATAGGGGCTGCACGGATATCATATGCTGTGTGTTCCTGCTCCTGGCCATTGTGGGCTACGTGGCTGTA
GGCATCATAGCCTGGACTCATGGAGACCCTCGAAAGGTGATCTACCCCACTGACAGCCGGGGCGAGTTCTGCGGG
CAGAAGGGCACAAAAAAACGAGAACAAACCCTATCTGTTTTATTTCAACATTGTGAAATGTGCCAGCCCCCTGGTT
CTGCTGGAATTCCAATGTCCCACTCCCCAGATCTGCGTGGAAAAATGCCCCGACCGCTACCTCACGTACCTGAAT
GCTCGCAGCTCCCGGGACTTTGAGTACTATAAGCAGTTCTGTGTTCCTGGCTTCAAGAACAATAAAGGAGTGGCT
GAGGTGCTTCAAGATGGTGACTGCCCTGCTGTCCTCATCCCCAGCAAACCCTTGGCCCGGAGATGCTTCCCCGCT
ATCCACGCCTACAAGGGTGTCCTGATGGTGGGCAATGAGACGACCTATGAGGATGGGCATGGCTCCCGGAAAAAC
ATCACAGACCTGGTGGAGGGCGCCAAGAAAGCCAATGGAGTCCTAGAGGCGCGGCAACTCGCCATGCGCATATTT
GAAGATTACACCGTCTCTTGGTACTGGATTATCATAGGCCTGGTCATTGCCATGGCGATGAGCCTCCTGTTCATC
ATCCTGCTTCGCTTCCTGGCTGGTATTATGGTCTGGGTGATGATCATCATGGTGATTCTGGTGCTGGGCTACGGA
ATATTTCACTGCTACATGGAGTACTCCCGACTGCGTGGTGAGGCCGGCTCTGATGTCTCTTTGGTGGACCTCGGC
TTTCAGACGGATTTCCGGGTGTACCTGCACTTACGGCAGACCTGGTTGGCCTTTATGATCATTCTGAGTATCCTT
GAAGTCATTATCATCTTGCTGCTCATCTTTCTCCGGAAGAGAATTCTCATCGCGATTGCACTCATCAAAGAAGCC
AGCAGGGCTGTGGGATACGTCATGTGCTCCTTGCTCTACCCACTGGTCACCTTCTTCTTGCTGTGCCTCTGCATC
GCCTACTGGGCCAGCACTGCTGTCTTCCTGTCCACTTCCAACGAAGCGGTCTATAAGATCTTTGATGACAGCCCC
TGCCCATTTACTGCGAAAACCTGCAACCCAGAGACCTTCCCCTCCTCCAATGAGTCCCGCCAATGCCCCAATGCC
CGTTGCCAGTTCGCCTTCTACGGTGGTGAGTCGGGCTACCACCGGGCCCTGCTGGGCCTGCAGATCTTCAATGCC
TTCATGTTCTTCTGGTTGGCCAACTTCGTGCTGGCGCTGGGCCAGGTCACGCTGGCCGGGGCCTTTGCCTCCTAC
TACTGGGCCCTGCGCAAGCCGGACGACCTGCCGGCCTTCCCGCTCTTCTCTGCCTTTGGCCGGGCGCTCAGGTAC
CACACAGGCTCCCTGGCCTTTGGCGCGCTCATCCTGGCCATTGTGCAGATCATCCGTGTGATACTCGAGTACCTG
GATCAGCGGCTGAAAGCTGCAGAGAACAAGTTTGCCAAGTGCCTCATGACCTGTCTCAAATGCTGCTTCTGGTGC
CTGGAGAAGTTCATCAAATTCCTTAATAGGAATGCCTACATCATGATTGCCATCTACGGCACCAATTTCTGCACC
TCGGCCAGGAATGCCTTCTTCCTGCTCATGAGAAACATCATCAGAGTGGCTGTCCTGGATAAAGTTACTGACTTC
CTCTTCCTGTTGGGCAAACTTCTGATCGTTGGTAGTGTGGGGATCCTGGCTTTCTTCTTCTTCACCCACCGTATC
AGGATCGTGCAGGATACAGCACCACCCCTCAATTATTACTGGGTTCCTATACTGACGGTGATCGTTGGCTCCTAC
TTGATTGCACACGGTTTCTTCAGCGTCTATGGCATGTGTGTGGACACGCTGTTCCTCTGCTTCTTGGAGGACCTG
GAGAGGAATGACGGCTCGGCCGAGAGGCCTTACTTCATGTCTTCCACCCTCAAGAAACTCTTGAACAAGACCAAC
AAGAAGGCAGCGGAGTCCTGA

5690/6881
FIGURE 5244

GACCGGGGGCGAGCGGGCGGGCGGGCAGGCGCGCGCCGGGGGAGGTGCGGGAACACGTGACCGGCTGAAGCCCCGC
CCCCTTTGACGCCGCGTTGCGCCTCGACGCAGGCCCAACCCAAATGGGAGGGAGGGGCGAAAAGAGATAAGGGGG
GGGCTGAGGGGGTGGGCGTGAGTTGCACGTGGTGCAAGCGGGAGTGTTTGCGTGCGTAGTCACGTGACTTCGGCA
CCTTTCCCTCCGCTTTCGATAGGTTGCTCCATCATGTGACAATGGCGAATTTCGCGGTTTCCTTCGCCATCTGAC
AACTTTTGGCGCCTTCCCTTTGCCGTACTGGGAGTCCTCCATCACGTGACGAGGGCACGCTCTGGTTTTCGCTAA
GGCGTTTTTGAGCGGCCATTACCACGTGATGCAAGGCAAGCGTCAGAGGCGGAGCCTCCCTACGGCTGCGACAT
TTTGCGCCTGCGCGGCCGCCATCTTACGCCCGTCGCCCTGAGTACGTTAGCGGAAATGGCTCCGAGAGGCTTTGA
CGCATGTGTACCTTTTTAGTGGCGGTATCTCGGCCGGGGATTTTCGGGCTCCAGTGGAGGTGGCTATGCTCACCC
CATCTCCCTTGAGAGGCACAGAAGGTTAGAGATGTGTGCGAGGAACGGCCAGGTCCAGCGTCTCCTCGTTGCTGC
CCCTTGAGCCCGGGACCGGCGCCAATGCGCGCCCGGGTTCTTGGGTTCTTTCGTCCCGCAGACCTGCCTTGGTGT
GGCGTCCCTGGGCCGTAGCTTCCGAAGGCTGCAGCCGACCTGGTCGGGGTCCTCTAGCCCGCCTTCCCCTTCCCC
CATTGACAGATGGAGAAACTGAGGCCCAGGCCAAAAAAATATCTCACTAGAGGGCTCACCGCCATTTCCTGGAAAA
ATTGGGGCTGGGACTCAACGGACGCTCGTCCAGCAGCAGCGCGGAGCTCCGAAGTAAAGGCGCCCGTGACCGAGT
GCTTTGTCCTTACAAGCGTGGTGTTCTTGAATGCTTCCAGGCGCCTTATGAGGCCCCCGATGTACAATCTGTGCT
TAACTAAACCCCACTGTCTTCCAGGGTCAGGTTGGCCATCCGCAGGCGTAGTTGCTAGGAAGGTTTGACAGATGT
CCGCCTGTTGATTCAGACGTTCCCAGGATTTGGAGCAAGAAGAGCAAGGAAGGCCAGGCGCGGTGGCTCACGTTT
GTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCACGAGGTCAGGAGTTCGAGACCAGCCTGGCCAGCATG
GTGAAACCCCGTCTCTACTAAAAATACAAAAGAAAATTAGCCGGGTGTGGTGGCACATGCCTGTAGTCCCACCTA
CTTGGGAGGCTGAGGCAGGAGAATTGTTTGACCTGGCAGGCGGAGGTTGCAGTGAGCCGAGATTGCGCCACTGCA
CTCCAGTCTGGGCGACAGAGCGAGACTCTGTCTCAGAAAAAAAAAAGAGCAAGGAGGTGTTGAAAATGGGTTTCC
TGGCTGGGCGTGGTGGCTCACGCTTGTAATCCCAGCACTTTGGGAAGCTGAGGTGGGCGGATCACTTGAGGTCAG
GAGTTTGAGACCAGCCTGGCCAACATGGTGAAACACCGTCTCCACTAAAAATAGAAAAATTAACTGGGTGTGGTG
GAGGGCGCCTGTAATCCCAGCTAATCAGGAAGCTGAGACAGGAGGATCGCTTGAACCCAGGAGGCGGAGGTTGCA
GTGAGCCGAGATTGCTCCATTGCACTCCAGCCTGGGCGATAGAGTGAGACTCAGCCTCAAAAAAAAAAAAAAAAA
AAAATTCGCCAGGTGTGGTGGTGTGCGCCTATAATCCCAGCTACTCAGGAGGCAGAGGCACAAGAATGGCTTGAA
TCACTTGAACCTGGGAGGCAGAGGTTACAATGAGCCGAGATGGCACCACTGCACTCCAGCCTGGGCGACAGAGCG
AGACTCCGACTTCCCATCTTAAAAAAAAAAAAAAAAAAAAAAAAAGAAGTGTAAAGATGTGATTATGTGGCAGGGG
GTAAGGGTTAAAAAGAAAACAAGAACAAGTTTTCCTCTGCTTAGCCAGCTTACTTCAAGGACAGTTATAACACTG
AAAAGTCGAGGCCAAAGGAATGGGCTCCAGACAGCCTCCTCCGGAGCAAAGTTGAAAAGAAAAATTCCTTTACTG
TCTCTCCTTTTCTGAACCATTAAATATGACTGTTTGCCAATGGTTGTATTTAGTAAGATTTGTAGACTCTGTTTT
TCTTTTGACACAGCTGCAAGGCCAACAGCTGTGCAAAGCCACAAGTTATGCTAAGTCAGCAGTTATGCTATAGAT
TACATGACCTGTGACTGTATCATTAACTGCTTTTGTTTTGCTTCTGTAAGTTTGCCTATAAAAACCACACTCAGT
CTTTGTTCAATGGTCAGCTTTTCAGATACAAATCCACTGAGCCGGTGTACATCTAAATAAATCCTCCTGTTTCCC
GT

5691/6881
FIGURE 5245

MAPLHSSLGDRARLRLPILKKKKKKKKKCKDVIMWQGVRVKKKTRTSFPLLSQLTSRTVITLKSRGQRNGLQTAS
SGAKLKRKIPLLSLLF

5692/6881
FIGURE 5246

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GTTAGAGCAGAGGAGGTCCCAGATACCAAGTGGCGCCTCCCAGGAAAGGCTGGGAGAAGAGGTGGCCTGGAGTAC
CCCGAGATCCCAGCAGCGCACACAGTGGAGGGATGAGGATGGATGGGTCCTAACCCCTGATTTTGATGGGATGTG
TTCATGTCCTATCTCCTCTCCTGGACACATTAAGGGGTTGGGACAAGAAGAGACTCCTGTGAGATCAGCAGACCT
CGTGTTTAAGGAGAGAATGCCTGCCTGCAACACTCATGGAGAGGGACACTTCCTGGCCCCACCTGCTAAATACCT
CCAAACTCTGGGCAGGCGCCTGCATTCTCAACACAGGACTTCCCTTAACAGTTTCCGGATCAGTGACCACCACCA
CGTTCAGGTTTCTGAATGCAGACCCACCACGAGGGATGGATTCCACCCGCCCGCCCTGCTGCAGATACATGCGGC
ACAGCAGGCACGTGCCTGGAGAGAACAGCTCCTGAGCACAGCACCCTTGGAGCCCTCACCCCGCTCACGATCCTC
ACCAGTGCTGATGATGCCGTCATGCTGCTGGCCTGAGACAGTATCCCAGCTACAACAGGACGACACCGGGTTCAG
GAATATGTGGCTATCACCTTGAGCACTGACAGTGGCCTTCCAGGCTAGTTGCCTTCCAAACGCAGGTAGCCGACC
TGCAGGAGGGCCTACAAACGGGCCCAGCAAGAGCTGGGCAACAGCTGGCTTGTGAAATGAGACACCTTGACCAAT
ATGCTTTGGGTGGACGGTCTCCTACATGTTCAGTGGAGGCCACCAGGAGCATCCATGAGCGGGGAAGGGGTCCAC
ACCCTTACATGGCAAGTTGATACGATGGGGTGCTTGGTGGATGGGCCATGGAGGTCCGTGAGCTGGAACTGGGCA
CACGCCATCCCAGAGGGCTCAGGATGCCCCAGGAAGGAAAGAAGGGCAACAGACTACACGATTGGACGTGTGTGG
TTGACTGGGATGAAGTTGGAGGGAGGGGCAGGGCCTTGCAGGGGATTGGTACTGATCCCAGGGAGGAAGTGTTGG
GGCTTCATGAACTAGGATGAAAGGAGGCCCCTGAGCCATGACAAGGGGCACATCCAGGATTTCCGCCACCCTGAA
TTTAGTAGAGCTAGTAGGCCCTGGTCGTCACTCTGGGCAGGGATGCCGTCAGCCTTGAGGGTCGCCACCCACCTG
TGTGTTGCCCTCTGTCCTGGCAGGGAAACATACACCCCTTGTCTCACCACCAACCTTGCTTGTGTAGTCAGCAGG
GCTGGCCCTGCCCCAAGGACTCACTGCATGTACCCGGACCCCTAGGCCTGGCCTTTGCAGCATAGTTGGGAGCTT
CTGGATTCCATCTGCACCTGTGAGCCCCATGCTGGCTGTGCACTGCGCGGGCCTGAGACTGCTGGATACAATGTT
GGGCAACAACTCAGCCAGCCTGATGGCAGCCTCAGAGGCTTACTCTAACCCATCCCAGAATAAATGGAGACTTCA
TGTGTT
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5693/6881
FIGURE 5247A

GACCGTGAGGCCGAGCCGGGAGCGGGCGTCTTGCCGAGGCCCGGGCGGGCGGGGAGCAACGGCTACAGACGCCGC
GGGGCCAGGTCGTTGAGGGTCGGCGGCGGGCGAGGAGCGCAGGGCGCTCGGGCCGGGGGCCGCCGGCGCCATGGG
CAACCGCGGGATGGAAGAGCTGATCCCGCTGGTCAACAAACTGCAGGACGCCTTCAGCTCCATCGGCCAGAGCTG
CCACCTGGACCTGCCGCAGATCGCTGTAGTGGGCGGCCAGAGCGCCGGCAAGAGCTCGGTGCTGGAGAACTTCGT
GGGCCGGGACTTCCTTCCCCGCGGTTCAGGAATCGTCACCCGGCGGCCTCTCATTCTGCAGCTCATCTTCTCAAA
AACAGAACATGCCGAGTTTTTGCACTGCAAGTCCAAAAAGTTTACAGACTTTGATGAAGTCCGGCAGGAGATTGA
AGCAGAGACCGACAGGGTCACGGGGACCAACAAAGGCATCTCCCCAGTGCCCATCAACCTTCGAGTCTACTCGCC
ACACGTGTTGAACTTGACCCTCATCGACCTCCCGGGTATCACCAAGGTGCCTGTGGGCGACCAGCCTCCAGACAT
CGAGTACCAGATCAAGGACATGATCCTGCAGTTCATCAGCCGGGAGAGCAGCCTCATTCTGGCTGTCACGCCCGC
CAACATGGACCTGGCCAACTCCGACGCCCTCAAGCTGGCCAAGGAAGTCGATCCCCAAGGCCTACGGACCATCGG
TGTCATCACCAAGCTTGACCTGATGGACGAGGGCACCGACGCCAGGGACGTCTTGGAGAACAAGTTGCTCCCGTT
GAGAAGAGGCTACATTGGCGTGGTGAACCGCAGCCAGAAGGATATTGAGGGCAAGAAGGACATCCGTGCAGCACT
GGCAGCTGAGAGGAAGTTCTTCCTCTCCCACCCGGCCTACCGGCACATGGCCGACCGCATGGGCACGCCACATCT
GCAGAAGACGCTGAATCAGCAACTGACCAACCACATCCGGGAGTCGCTGCCGGCCCTACGTAGCAAACTACAGAG
CCAGCTGCTGTCCCTGGAGAAGGAGGTGGAGGAGTACAAGAACTTTCGGCCCGACGACCCCACCCGCAAAACCAA
AGCCCTGCTGCAGATGGTCCAGCAGTTTGGGGTGGATTTTGAGAAGAGGATCGAGGGCTCAGGAGATCAGGTGGA
CACTCTGGAGCTCTCCGGGGGCGCCCGAATCAATCGCATCTTCCACGAGCGGTTCCCATTTGAGCTGGTGAAGAT
GGAGTTTGACGAGAAGGACTTACGACGGGAGATCAGCTATGCCATTAAGAACATCCATGGAGTCAGGACCGGGCT
TTTCACCCCGGACTTGGCATTCGAGGCCATTGTGAAAAAGCAGGTCGTCAAGCTGAAAGAGCCCTGTCTGAAATG
TGTCGACCTGGTTATCCAGGAGCTAATCAATACAGTTAGGCAGTGTACCAGTAAGCTCAGTTCCTACCCCCGGTT
GCGAGAGGAGACAGAGCGAATCGTCACCACTTACATCCGGGAACGGGAGGGGAGAACGAAGGACCAGATTCTTCT
GCTGATCGACATTGAGCAGTCCTACATCAACACGAACCATGAGGACTTCATCGGGTTTGCCAATGCCCAGCAGAG
GAGCACGCAGCTGAACAAGAAGAGAGCCATCCCCAATCAGGGGGGAGATCCTGGTGATCCGCAGGGGCTGGCTGAC
CATCAACAACATCAGCCTGATGAAAGGCGGCTCCAAGGAGTACTGGTTTGTGCTGACTGCCGAGTCACTGTCCTG
GTACAAGGATGAGGAGGAGAAAGAGAAGAAGTACATGCTGCCTCTGGACAACCTCAAGATCCGTGATGTGGAGAA
GGGCTTCATGTCCAACAAGCACGTCTTCGCCATCTTCAACACGGAGCAGAGAAACGTCTACAAGGACCTGCGGCA
GATCGAGCTGGCCTGTGACTCCCAGGAAGACGTGGACAGCTGGAAGGCCTCGTTCCTCCGAGCTGGCGTCTACCC
CGAGAAGGACCAGGCAGAAAACGAGGATGGGGCCCAGGAGAACACCTTCTCCATGGACCCCCAACTGGAGCGGCA
GGTGGAGACCATTCGCAACCTGGTGGACTCATACGTGGCCATCATCAACAAGTCCATCCGCGACCTCATGCCAAA
GACCATCATGCACCTCATGATCAACAATACGAAGGCCTTCATCCACCACGAGCTGCTGGCCTACCTATACTCCTC
GGCAGACCAGAGCAGCCTCATGGAGGAGTCGGCTGACCAGGCACAGCGGCGGGACGACATGCTGCGCATGTACCA
TGCCCTCAAGGAGGCGCTCAACATCATCGGTGACATCAGCACCAGCACTGTGTCCACGCCTGTACCCCCGCCTGT
CGATGACACCTGGCTCCAGAGCGCCAGCAGCCACAGCCCCACTCCACAGCGCCGACCGGTGTCCAGCATACACCC
CCCTGGCCGGCCCCCAGCAGTGAGGGGCCCCACTCCAGGGCCCCCCCTGATTCCTGTTCCCGTGGGGGCAGCAGC
CTCCTTCTCGGCGCCCCCAATCCCATCCCGGCCTGGACCCCAGAGCGTGTTTGCCAACAGTGACCTCTTCCCAGC
CCCGCCTCAGATCCCATCTCGGCCAGTTCGGATCCCCCCAGGGATTCCCCCAGGAGTGCCCAGCAGAAGACCCCC
TGCTGCGCCCAGCCGGCCCACCATTATCCGCCCAGCCGAGCCATCCCTGCTCGACTAGGCCTCGAGGGGGGCGTG
CTCTCGGGGGGGCCTCACGCACCCGCGGCGCAGGAGCTTCAGTGGTCTGGGGCCCTCCGCCGCCCCTATGCTGGG
ACCAGGCTCCCAGTGGGCAGCCCTGGCCTCTTCCTTAACGCTGGCCCCGGTCCAGGGCCGGCCCCTGTGCCTGGC
TGGACACCGCACTGCGCAAAGGGGCCCTGGAGCTCCAGGCAGGGGGCGCTGGGGTGTTGCACTTTGGGGGATGGA
GTCTCAGGGTGGCAGAGGGGGGACCAGAACCCTTGACACCATCCTGAATGAGGGGTCCAGCCTGGGGGGGACTCT
ACCAAGGTCTTCTTGGGCTGGGAAAGCCCATGTAGGGCAGGCCTTCTATAAGTGCGGGCACCAAGGGCGCCTACA
TCCCCAGGCCTTGCTGGGGTGCAGGGGTATATCAACTTCCCATTAGCAGGAGCTCCCCAGCGGCAAGCCTGGCCC
AGTGGGCTCGGTAGTGCCCAGCTGGCAGGCCTGAGGTGTACATAGTCCTTCCCGGCCATATTAACCACACAGCCT
GAGCCTGGCCCAGCCTCGGCTGCCAGAGGTGCCTTTGCTAGGCCCGGAGCCGTTGGCCCGGGCCGGCCTTGCCCT
ATTCCTCTCCTCCTCCTCCTGGGTCCCCCAGGGTGGCTGGGCTTGGGCTATGTGGGTGGTGGTGGCGGGGGG
TCTTGGGGGCCTCTCAGCTCCCGCCCATGCCTCCCTGATGGGTGGGCCCAGGGCGGCCTCTCTCTGAGGAGACCT
CACCCACTCCTCGCTCAGTTTGACCACTGTAAGTGCCTGCACTCTGTATTCTATTAATAAACTAAAATAAAGGGA

5694/6881
FIGURE 5247B

AGACGCTGCTGGTG

FIGURE 5248

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CGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCAGCGGCGGCGGCCTGGGCCCGGGCGC
AGCGGCGGCGGCGGCGGGGCCTGGAGCCGGATCTAAGATGGCAGCGGCGGCGGCGGCGGTGGGGCCGGGCGCGGG
CGGCGCGGGGTCGGCGGTCCCGGGCGGCGCGGGGCCCTGCGCTACCGTGTCGGTGTTCCCCGGCGCCCGCCTCCT
CACCATCGGCGACGCGAACGGCGAGATCCAGCGGCACGCGGAGCAGCAGGCGCTGCGCCTCGAGGTGCGCGCCGG
CCCGGACTCGGCGGGCATCGCCCTCTACAGCCATGAAGATGTGTGTGTCTTTAAGTGCTCAGTGTCCCGAGAGAC
AGAGTGCAGCCGTGTGGGCAAGCAGTCCTTCATCATCACCCTGGGCTGCAACAGCGTCCTCATCCAGTTCGCCAC
ACCCAACGATTTCTGTTCCTTCTACAACATCCTGAAAACCTGCCGGGGGCCACACCCTGGAGCGGTCTGTGTTCAG
CGAGCGGACGGAGGAGTCTTCTGCCGTGCAGTACTTCCAGTTTTATGGCTACCTGTCCCAGCAGCAGAACATGAT
GCAGGACTACGTGCGGACAGGCACCTACCAGCGCGCCATCCTGCAAAACCACACCGACTTCAAGGACAAGATCGT
TCTTGATGTTGGCTGTGGCTCTGGGATCCTGTCGTTTTTTGCCGCCCAAGCTGGAGCACGGAAAATCTACGCGGT
GGAGGCCAGCACCATGGCCCAGCACGCTGAGGTCTTGGTGAAGAGTAACAACCTGACGGACCGCATCGTGGTCAT
CCCGGGCAAGGTGGAGGAGGTGTCACTCCCCGAGCAGGTGGACATCATCATCTCGGAGCCCATGGGCTACATGCT
CTTCAACGAGCGCATGCTGGAGAGCTACCTCCACGCCAAGAAGTACCTGAAGCCCAGCGGAAACATGTTTCCTAC
CATTGGTGACGTCCACCTTGCACCCTTCACGGATGAACAGCTCTACATGGAGCAGTTCACCAAGGCCAACTTCTG
GTACCAGCCATCTTTCCATGGAGTGGACCTGTCGGCCCTCCGAGGTGCCGCGGTGGATGAGTATTTCCGGCAGCC
TGTGGTGGACACATTTGACATCCGGATCCTGATGGCCAAGTCTGTCAAGTACACGGTGAACTTCTTAGAAGCCAA
AGAAGGAGATTTGCACAGGATAGAAATCCCATTCAAATTCCACATGCTGCATTCAGGGCTGGTCCACGGCCTGGC
TTTCTGGTTTGACGTTGCTTTCATCGGCTCCATAATGACCGTGTGGCTGTCCACAGCCCCGACAGAGCCCCTGAC
CCACTGGTACCAGGTGCGGTGCCTGTTCCAGTCACCACTGTTCGCCAAGGCAGGGGACACGCTCTCAGGGACATG
TCTGCTTATTGCCAACAAAAGACAGAGCTACGACATCAGTATTGTGGCCCAGGTGGACCAGACCGGCTCCAAGTC
CAGTAACCTCCTGGATCTGAAAAACCCCTTCTTTAGATACACGGGCACAACGCCCTCACCCCCACCCGGCTCCCA
CTACACATCTCCCTCGGAAAACATGTGGAACACGGGCAGCACCTACAACCTCAGCAGCGGGATGGCCGTGGCAGG
GATGCCGACCGCCTATGACTTGAGCAGTGTTATTGCCAGTGGCTCCAGCGTGGGCCACAACAACCTGATTCCTTT
AGCCAACACGGGGATTGTCAATCACACCCACTCCCGGATGGGCTCCATAATGAGCACGGGGATTGTCCAAGGGTC
CTCCGGCGCCCAGGGCAGTGGTGGTGGCAGCACGAGTGCCCACTATGCAGTCAACAGCCAGTTCACCATGGGCGG
CCCCGCCATCTCCATGGCGTCGCCCATGTCCATCCCGACCAACACCATGCACTACGGGAGCTAGGGGCCCGCCCC
GCGGACTGACAGCACCAGGAAACCAAATGATGTCCCTGCCCGCCGCCCCCGCCGGGCGGCTTTCCCCCTTGTACT
GGGAGAAGCTCGAACACCCGGTCACAGCTCTCTTTGCTATGGGAACTGGGACACTTTTTTACACGATGTTGCCGCC
GTCCCCACCCTAACCCCCACCTCCCGGCCCTGAGCGTGTGTCGCTGCCATATTTTACACAAAATCATGTTGTGGG
AGCCCTCGTCCCCCCTCCTGCCCGCTCTACCCTGACCTGGGCTTGTCATCTGCTGGAACAGGCGCCATGGGGCCT
GCCAGCCCTGCCTGCCAGGTCCCTTAGCACCTGTCCCCCTGCCTGTCTCCAGTGGGAAGGTAGCCTGGCCAGGCG
GGGCCTCCCCTTCGACGACCAGGCCTCGGTCACAACGGACGTGACATGCTGCTTTTTTTAATTTTATTTTTTTAT
GAAAAGAACCAGTGTCAATCCGCAGACCCTCTGTGAAGCCAGGCCGGCCGGGCCGAGCCAGCAGCCCCTCTCCCT
AGACTCAGAGGCGCCGCGGGGAGGGGTGGCCCCGCCGAGGCTTCAGGGGCCCCCTCCCCACCAAAGGGTTCACCT
CACACTTGAATGTACAACCCACCCCACTGTCGGGAAGGCCTCCGTCCTCGGCCCCTGCCTCTTGCTGCTGTCCTG
TCCCCGAGCCCCTGCAGGTCCCCCCCCGCCCCCCCACTCAAGAGTTAGAGCAGGTGGCTGCAGGCCTTGGGCCCG
GAGGGAAGGCCACTGCCGGCCACTTGGGGCAGACACAGACACCTCAAGGATCTGTCACGGAAGGCGTCCTTTTTC
CTTGTAGCTAACGTTAGGCCTGAGTAGCTCCCCTCCATCCTTGTAGACGCTCCAGTCCCTACTACTGTGACGGCA
TTTCCATCCCTCCCCTGCCCGGGAAGGGACCTTGCAGGGACCTCTCCCTCCAAAAAAAGAAAAAAAGAAAAAGAA
AGAAAAAATAAATGAGGAAACGTGTTGCA
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5696/6881
FIGURE 5249

MAAAAAAVGPGAGGAGSAVPGGAGPCATVSVFPGARLLTIGDANGEIQRHAEQQALRLEVRAGPDSAGIALYSHE
DVCVFKCSVSRETECSRVGKQSFIITLGCNSVLIQFATPNDFCSFYNILKTCRGHTLERSVFSERTEESSAVQYF
QFYGYLSQQQNMMQDYVRTGTYQRAILQNHTDFKDKIVLDVGCGSGILSFFAAQAGARKIYAVEASTMAQHAEVL
VKSNNLTDRIVVIPGKVEEVSLPEQVDIIISEPMGYMLFNERMLESYLHAKKYLKPSGNMFPTIGDVHLAPFTDE
QLYMEQFTKANFWYQPSFHGVDLSALRGAAVDEYFRQPVVDTFDIRILMAKSVKYTVNFLEAKEGDLHRIEIPFK
FHMLHSGLVHGLAFWFDVAFIGSIMTVWLSTAPTEPLTHWYQVRCLFQSPLFAKAGDTLSGTCLLIANKRQSYDI
SIVAQVDQTGSKSSNLLDLKNPFFRYTGTTPSPPPGSHYTSPSENMWNTGSTYNLSSGMAVAGMPTAYDLSSVIA
SGSSVGHNNLIPLANTGIVNHTHSRMGSIMSTGIVQGSSGAQGSGGGSTSAHYAVNSQFTMGGPAISMASPMSIP
TNTMHYGS

5697/6881
FIGURE 5250

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GGCACGAGGGGATGTTGCTGTCAGGTCTGAGTCGGTTGGAGTCTGACGGGTAGGCGAGACGCGCAGGCGCAGAGA
GCCCCAGCCACGCCGGCCCAGGTGGCCTCAGCGAGGGATGCGGAGACGCCCCTGAACGACCATGGCATCGGCCGA
CGAGCTGACCTTCCATGAATTCGAGGAGGCCACTAATCTTCTGGCTGACACCCCAGATGCAGCCACCACCAGCAG
AAGCGATCAGCTGACCCCACAAGGGCACGTGGCTGTGGCCGTGGGCTCAGGTGGCAGCTATGGAGCCGAGGATGA
GGTGGAGGAGGAGAGTGACAAGGCCGCGCTCCTGCAGGAGCAGCAGCAGCAGCAGCAGCCGGGATTCTGGACCTT
CAGCTACTATCAGAGCTTCTTTGACGTGGACACCTCACAGGTCCTGGACCGGATCAAAGGCTCACTGCTGCCCCG
GCCTGGCCACAACTTTGTGCGGCACCATCTGCGGAATCGGCCGGATCTGTATGGCCCCTTCTGGATCTGTGCCAC
GTTGGCCTTTGTCCTGGCCGTCACTGGCAACCTGACGCTGGTGCTGGCCCAGAGGAGGGACCCCTCCATCCACTA
CAGCCCCCAGTTCCACAAGGTGACCGTGGCAGGCATCAGCATCTACTGCTATGCGTGGCTGGTGCCCCTGGCCCT
GTGGGGCTTCCTGCGGTGGCGCAAGGGTGTCCAGGAGCGCATGGGGCCCTACACCTTCCTGGAGACTGTGTGCAT
CTACGGCTACTCCCTCTTTGTCTTCATCCCCATGGTGGTCCTGTGGCTCATCCCTGTGCCTTGGCTGCAGTGGCT
CTTTGGGGCGCTGGCCCTGGGCCTGTCAGCCGCCGGGCTGGTATTCACCCTCTGGCCCGTGGTCCGTGAGGACAC
CAGGCTGGTGGCCACAGTGCTGCTGTCCGTGGTCGTGCTGCTCCACGCCCTCCTGGCCATGGGCTGTAAGTTGTA
CTTCTTCCAGTCGCTGCCTCCGGAGAACGTGGCTCCTCCTCCCCAAATCACATCTCTGCCCTCAAACATCGCGCT
GTCCCCTACCTTGCCGCAGTCCCTGGCCCCCTCCTAGGAAGGCCCGGGTCCCACAGGCAACACCTAAGTGGACCA
ACCCCTCTGCCTGTCCTGCCCCCCAGACGATGACTGAAGGCTCCTTTGACACCTTGAGATGATTCTGCTACTTTC
CAGACTTTTCTTACAAAGCAAACACTTTTATTTTCTATGCAAAGGTGATTCAGAGAATTTATATAAAGGCGGGCG
AGGGGCAGCCGAGCAGGGAGCTTTGGGACAGGGCTGGGGCCCCCATATCCCCCCCGGGCCACCTGCTTTCCCTCC
TATGGCTCCCCTGGAACAGGAGGGAGAGCCAAGGGGGCGGCCCAGCCTGGACAGCGCCCGCTCCTGCCTGGGTGC
ACACACGGCGGGCCTGAGCTCCAGCATCTGAGTTTGGGGGTATGAGAAACAGGGGAGCAGAAGGAGAAGAAAACT
GCCTGTGCTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 5251

MASADELTFHEFEEATNLLADTPDAATTSRSDQLTPQGHVAVAVGSGGSYGAEDEVEEESDKAALLQEQQQQQQP
GFWTFSYYQSFFDVDTSQVLDRIKGSLLPRPGHNFVRHHLRNRPDLYGPFWICATLAFVLAVTGNLTLVLAQRRD
PSIHYSPQFHKVTVAGISIYCYAWLVPLALWGFLRWRKGVQERMGPYTFLETVCIYGYSLFVFIPMVVLWLIPVP
WLQWLFGALALGLSAAGLVFTLWPVVREDTRLVATVLLSVVVLLHALLAMGCKLYFFQSLPPENVAPPPQITSLP
SNIALSPTLPQSLAPS

5699/6881
FIGURE 5252

GAAGAGACTCCCGGGCTCTTAACGTCGGGTATCAGGAGTTTCTTCCCGGAGCAAGGACCCCCAAGACGGAAGAGG
ATGGCCGCGGCGGCTCTGAGGAGATTTTGGTCCCGGCGCCGCGCAGAGGCGGGCGACGCGGTAGTGGCGAAGCCG
GGAGTGTGGGCGCGGCTGGGGTCCTGGGCCCGCGCGCTGCTCCGGGACTACGCCGAGGCCTGCAGGGACGCTTCG
GCGGAGGCTAGGGCCCGGCCGGGGCGCGCCGCTGTGTATGTGGGTCTGCTGGGCGGCGCGGCGGCCTGCTTCACG
CTGGCGCCCAGCGAGGGTGCCTTCGAGGAGGCGCTGCTGGAGGCGTCGGGGACCCTCCTGCTGCTGGCGCCGGCC
ACCCGCAACCGCGAGTCCGAAGCCTTCGTGCAGAGGCTGCTCTGGCTGCGGGGCCGTGGCCGCCTGCGCTACGTC
AACCTGGGGCTCTGCTCGCTGGTGTACGAGGCGCCCTTCGACGCCCAGGCCAGCCTCTACCAGGCGCGTTGCCGC
TACCTGCAGCCCCGCTGGACCGACTTCCCCGGCCGGGTCCTGGACGTGGGCTTCGTGGGTCGCTGGTGGGTGCTG
GGGGCCTGGATGCGCGACTGCGACATCAACGACGACGAATTCCTGCACCTGCCGGCGCATTTGCGGGTGGTCGGG
CCCCAGCAGCTGCATTCCGAGACCAACGAGCGGCTCTTCGATGAGAAGTACAAGCCTGTCGTGCTCACCGACGAT
CAGGTGGACCAGGCGCTGTGGGAGGAGCAGGTCTTGCAGAAGGAGAAGAAGGACAGGCTCGCCCTGAGCCAGGCC
CACTCGCTGGTGCAGGCGGAGGCCCCGAGA**TGA**AACCCTGAGGCCCCCGAGTCCTGGCAAACTGCTTGCCTGGGG
TGGTGCAGTTCTGAGTGTGCCTCACCTGCAGAACAGCTGAGACAGATGATGTGCAAAGTGTTTTCTCACTGGATT
TGCACAAGTTTGGGGAGCCTTTCTGCCCCCCGTCTTTGTTCTTTATTAGCTGAAGCTAATTCAGAGCCACCTGGG
TCCGGGAGTTGGGGACAGCAGAACGACTTGACACATGTTCATCACTGGCAGAGCTGGTCATGAGCCTTTTATATA
AGCCTTTTTCATCGGGCCTCAGAGGCCCTCCTTAAGGAGGTACCACATTGGTCAGCTGACTTGCAAACTCTTCTA
AGGCCACTTAGATTTTCTTTTTCAAGTTTGGGTTGTGGCCTGGCATGGTGATGTCTGTAATCCCAGCAGTTTGCA
AACTGAGGCAAGAGAATCGCTTGAGGCCAGGAGTTTGAGGCCAGCTAGAGTGACATAGCAAGACTCCGATGCTAC
AAAAAAGAATAATAATAGTAATTAACTAAATAAAATTTGAGCTG

5700/6881
FIGURE 5253

MAAAALRRFWSRRRAEAGDAVVAKPGVWARLGSWARALLRDYAEACRDASAEARARPGRAAVYVGLLGGAAACFT
LAPSEGAFEEALLEASGTLLLLAPATRNRESEAFVQRLLWLRGRGRLRYVNLGLCSLVYEAPFDAQASLYQARCR
YLQPRWTDFPGRVLDVGFVGRWWVLGAWMRDCDINDDEFLHLPAHLRVVGPQQLHSETNERLFDEKYKPVVLTDD
QVDQALWEEQVLQKEKKDRLALSQAHSLVQAEAPR

FIGURE 5254A

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CGCCGCGGTGCTGAGGGGGAGGGGAGCCGGCGAGCGCGCGCGCAGCGGGGGCGCGGGTGGCGCGCGTGTGTGTGA
AGGGGGGGCGGTGGCCGAGGCGGGCGGGCGCGCGCGCGAGGCTTCCCCTCGTTTGGCGGCGGCGGCGGCTTCTTT
GTTTCGTGAAGAGAAGCGAGACGCCCATTCTGCCCCCGGCCCCGCGCGGAGGGGCGGGGGAGGCGCCGGGAAGTC
GACGGCGCCGGCGGCTCCTGCAGGAGGCCACTGTCTGCAGCTCCCGTGAAGATGTCCACTCCAGACCCACCCCTG
GGCGGAACTCCTCGGCCAGGTCCTTCCCCGGGCCCTGGCCCTTCCCCTGGAGCCATGCTGGGCCCTAGCCCGGGT
CCCTCGCCGGGCTCCGCCCACAGCATGATGGGGCCCAGCCCAGGGCCGCCCTCAGCAGGACACCCCATCCCCACC
CAGGGGCCTGGAGGGTACCCTCAGGACAACATGCACCAGATGCACAAGCCCATGGAGTCCATGCATGAGAAGGGC
ATGTCGGACGACCCGCGCTACAACCAGATGAAAGGAATGGGGATGCGGTCAGGGGGCCATGCTGGGATGGGGCCC
CCGCCCAGCCCCATGGACCAGCACTCCCAAGGTTACCCCTCGCCCCTGGGTGGCTCTGAGCATGCCTCTAGTCCA
GTTCCAGCCAGTGGCCCGTCTTCGGGGCCCCAGATGTCTTCCGGGCCAGGAGGTGCCCCGCTGGATGGTGCTGAC
CCCCAGGCCTTGGGGCAGCAGAACCGGGGCCCAACCCCATTTAACCAGAACCAGCTGCACCAGCTCAGAGCTCAG
ATCATGGCCTACAAGATGCTGGCCAGGGGGCAGCCCCTCCCCGACCACCTGCAGATGGCGGTGCAGGGCAAGCGG
CCGATGCCCGGGATGCAGCAGCAGATGCCAACGCTACCTCCACCCTCGGTGTCCGCAACAGGACCCGGCCCTGGC
CCTGGCCCTGGCCCCGGCCCGGGTCCCGGCCCGGCACCTCCAAATTACAGCAGGCCTCATGGTATGGGAGGGCCC
AACATGCCTCCCCCAGGACCCTCGGGCGTGCCCCCCGGGATGCCAGGCCAGCCTCCTGGAGGGCCTCCCAAGCCC
TGGCCTGAAGGACCCATGGCGAATGCTGCTGCCCCCACGAGCACCCCTCAGAAGCTGATTCCCCCGCAGCCAACG
GGCCGCCCTTCCCCCGCGCCCCCTGCCGTCCCACCCGCCGCCTCGCCCGTGATGCCACCGCAGACCCAGTCCCCC
GGGCAGCCGGCCCAGCCCGCGCCCATGGTGCCACTGCACCAGAAGCAGAGCCGCATCACCCCCATCCAGAAGCCG
CGGGGCCTCGACCCTGTGGAGATCCTGCAGGAGCGCGAGTACAGGCTGCAGGCTCGCATCGCACACCGAATTCAG
GAACTTGAAAACCTTCCCGGGTCCCTGGCCGGGGATTTGCGAACCAAAGCGACCATTGAGCTCAAGGCCCTCAGG
CTGCTGAACTTCCAGAGGCAGCTGCGCCAGGAGGTGGTGGTGTGCATGCGGAGGGACACAGCGCTGGAGACAGCC
CTCAATGCTAAGGCCTACAAGCGCAGCAAGCGCCAGTCCCTGCGCGAGGCCCGCATCACTGAGAAGCTGGAGAAG
CAGCAGAAGATCGAGCAGGAGCGCAAGCGCCGGCAGAAGCACCAGGAATACCTCAATAGCATTCTCCAGCATGCC
AAGGATTTCAAGGAATATCACAGATCCGTCACAGGCAAAATCCAGAAGCTGACCAAGGCAGTGGCCACGTACCAT
GCCAACACGGAGCGGGAGCAGAAGAAAGAGAACGAGCGGATCGAGAAGGAGCGCATGCGGAGGCTCATGGCTGAA
GATGAGGAGGGGTACCGCAAGCTCATCGACCAGAAGAAGGACAAGCGCCTGGCCTACCTCTTGCAGCAGACAGAC
GAGTACGTGGCTAACCTCACGGAGCTGGTGCGGCAGCACAAGGCTGCCCAGGTCGCCAAGGAGAAAAAGAAGAAA
AAGAAAAAGAAGAAGGCAGAAAATGCAGAAGGACAGACGCCTGCCATTGGGCCGGATGGCGAGCCTCTGGACGAG
ACCAGCCAGATGAGCGACCTCCCGGTGAAGGTGATCCACGTGGAGAGTGGGAAGATCCTCACAGGCACAGATGCC
CCCAAAGCCGGGCAGCTGGAGGCCTGGCTCGAGATGAACCCGGGGTATGAAGTAGCTCCGAGGTCTGATAGTGAA
GAAAGTGGCTCAGAAGAAGAGGAAGAGGAGGAGGAGGAAGAGCAGCCGCAGGCAGCACAGCCTCCCACCCTGCCC
GTGGAGGAGAAGAAGAAGATTCCAGATCCAGACAGCGATGACGTCTCTGAGGTGGACGCGCGGCACATCATTGAG
AATGCCAAGCAAGATGTCGATGATGAATATGGCGTGTCCCAGGCCCTTGCACGTGGCCTGCAGTCCTACTATGCC
GTGGCCCATGCTGTCACTGAGAGAGTGGACAAGCAGTCAGCGCTTATGGTCAATGGTGTCCTCAAACAGTACCAG
ATCAAAGGTTTGGAGTGGCTGGTGTCCCTGTACAACAACAACCTGAACGGCATCCTGGCCGACGAGATGGGCCTG
GGGAAGACCATCCAGACCATCGCGCTCATCACGTACCTCATGGAGCACAAACGCATCAATGGGCCCTTCCTCATC
ATCGTGCCTCTCTCAACGCTGTCCAACTGGGCGTACGAGTTTGACAAGTGGGCCCCCTCCGTGGTGAAGGTGTCT
TACAAGGGATCCCCAGCAGCAAGACGGGCCTTTGTCCCCCAGCTCCGGAGTGGGAAGTTCAACGTCTTGCTGACG
ACGTACGAGTACATCATCAAAGACAAGCACATCCTCGCCAAGATCCGTTGGAAGTACATGATTGTGGACGAAGGT
CACCGCATGAAGAACCACCACTGCAAGCTGACGCAGGTGCTCAACACGCACTATGTGGCACCCCGCCGCCTGCTG
CTGACGGGCACACCGCTGCAGAACAAGCTTCCCGAGCTCTGGGCGCTGCTCAACTTCCTGCTGCCCACCATCTTC
AAGAGCTGCAGCACCTTCGAGCAGTGGTTTAACGCACCCTTTGCCATGACCGGGGAAAAGGTGGACCTGAATGAG
GAGGAAACCATTCTCATCATCCGGCGTCTCCACAAAGTGCTGCGGCCCTTCTTGCTCCGACGACTCAAGAAGGAA
GTCGAGGCCCAGTTGCCCGAAAAGGTGGAGTACGTCATCAAGTGCGACATGTCTGCGCTGCAGCGAGTGCTCTAC
CGCCACATGCAGGCCAAGGGCGTGCTGCTGACTGATGGCTCCGAGAAGGACAAGAAGGGCAAAGGCGGCACCAAG
ACCCTGATGAACACCATCATGCAGCTGCGGAAGATCTGCAACCACCCCTACATGTTCCAGCACATCGAGGAGTCC
TTTTCCGAGCACTTGGGGTTCACTGGCGGCATTGTCCAAGGGCTGGACCTGTACCGAGCCTCGGGTAAATTTGAG
CTTCTTGATAGAATTCTTCCCAAACTCCGAGCAACCAACCACAAAGTGCTGCTGTTCTGCCAAATGACCTCCCTC
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5702/6881
FIGURE 5254B

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ATGACCATCATGGAAGATTACTTTGCGTATCGCGGCTTTAAATACCTCAGGCTTGATGGAACCACGAAGGCGGAG
GACCGGGGCATGCTGCTGAAAACCTTCAACGAGCCCGGCTCTGAGTACTTCATCTTCCTGCTCAGCACCCGGGCT
GGGGGGCTCGGCCTGAACCTCCAGTCGGCAGACACTGTGATCATTTTTGACAGCGACTGGAATCCTCACCAGGAC
CTGCAAGCGCAGGACCGAGCCCACCGCATCGGGCAGCAGAACGAGGTGCGTGTGCTCCGCCTCTGCACCGTCAAC
AGCGTGGAGGAGAAGATCCTAGCTGCAGCCAAGTACAAGCTCAACGTGGACCAGAAGGTGATCCAGGCCGGCATG
TTCGACCAGAAGTCCTCCAGCCATGAGCGGCGCGCCTTCCTGCAGGCCATCCTGGAGCACGAGGAGCAGGATGAG
AGCAGACACTGCAGCACGGGCAGCGGCAGTGCCAGCTTCGCCCACACTGCCCCTCCGCCAGCGGGCGTCAACCCC
GACTTGGAGGAGCCACCTCTAAAGGAGGAAGACGAGGTGCCCGACGACGAGACCGTCAACCAGATGATCGCCCGG
CACGAGGAGGAGTTTGATCTGTTCATGCGCATGGACCTGGACCGCAGGCGCGAGGAGGCCCGCAACCCCAAGCGG
AAGCCGCGCCTCATGGAGGAGGACGAGCTCCCCTCGTGGATCATCAAGGACGACGCGGAGGTGGAGCGGCTGACC
TGTGAGGAGGAGGAGGAGAAGATGTTCGGCCGTGGCTCCCGCCACCGCAAGGAGGTGGACTACAGCGACTCACTG
ACGGAGAAGCAGTGGCTCAAGGCCATCGAGGAGGGCACGCTGGAGGAGATCGAAGAGGAGGTCCGGCAGAAGAAA
TCATCACGGAAGCGCAAGCGAGACAGCGACGCCGGCTCCTCCACCCCGACCACCAGCACCCGCAGCCGCGACAAG
GACGACGAGAGCAAGAAGCAGAAGAAGCGCGGGCGGCCGCCTGCCGAGAAACTCTCCCCTAACCCACCCAACCTC
ACCAAGAAGATGAAGAAGATTGTGGATGCCGTGATCAAGTACAAGGACAGCAGCAGTGGACGTCAGCTCAGCGAG
GTCTTCATCCAGCTGCCCTCGCGAAAGGAGCTGCCCGAGTACTACGAGCTCATCCGCAAGCCCGTGGACTTCAAG
AAGATAAAGGAGCGCATTCGCAACCACAAGTACCGCAGCCTCAACGACCTAGAGAAGGACGTCATGCTCCTGTGC
CAGAACGCACAGACCTTCAACCTGGAGGGCTCCCTGATCTATGAAGACTCCATCGTCTTGCAGTCGGTCTTCACC
AGCGTGCGGCAGAAAATCGAGAAGGAGGATGACAGTGAAGGCGAGGAGAGTGAGGAGGAGGAAGAGGGCGAGGAG
GAAGGCTCCGAATCCGAATCTCGGTCCGTCAAAGTGAAGATCAAGCTTGGCCGGAAGGAGAAGGCACAGGACCGG
CTGAAGGGCGGCCGGCGGCGGCCGAGCCGAGGGTCCCGAGCCAAGCCGGTCGTGAGTGACGATGACAGTGAGGAG
GAACAAGAGGAGGACCGCTCAGGAAGTGGCAGCGAAGAAGAC␣TGA␣GCCCCGACATTCCAGTCTCGACCCCGAGCC
CCTCGTTCCAGAGCTGAGATGGCATAGGCCTTAGCAGTAACGGGTAGCAGCAGATGTAGTTTCAGACTTGGAGTA
AAACTGTATAAACAAAAGAATCTTCCATATTTATACAGCAGAGAAGCTGTAGGACTGTTTGTGACTGGCCCTGTC
CTGGCATCAGTAGCATCTGTAACAGCATTAACTGTCTTAAAGAGAGAGAGAGAGAATTCCGAATTGGGGAACACA
CGATACCTGTTTTTCTTTTCCGTTGCTGGCAGTACTGTTGCGCCGCAGTTTGGAGTCACTGTAGTTAAGTGTGGA
TGCATGTGCGTCACCGTCCACTCCTCCTACTGTATTTTATTGGACAGGTCAGACTCGCCGGGGGCCCGGCGAGGG
TATGTCAGTGTCACTGGATGTCAAACAGTAATAAATTAAACCAACAACAAAACGCA
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5703/6881
FIGURE 5255

MSTPDPPLGGTPRPGPSPGPGPSPGAMLGPSPGPSPGSAHSMMGPSPGPPSAGHPIPTQGPGGYPQDNMHQMHKP
MESMHEKGMSDDPRYNQMKGMGMRSGGHAGMGPPPSPMDQHSQGYPSPLGGSEHASSPVPASGPSSGPQMSSGPG
GAPLDGADPQALGQQNRGPTPFNQNQLHQLRAQIMAYKMLARGQPLPDHLQMAVQGKRPMPGMQQQMPTLPPPSV
SATGPGPGPGPGPGPGPGPAPPNYSRPHGMGGPNMPPPGPSGVPPGMPGQPPGGPPKPWPEGPMANAAAPTSTPQ
KLIPPQPTGRPSPAPPAVPPAASPVMPPQTQSPGQPAQPAPMVPLHQKQSRITPIQKPRGLDPVEILQEREYRLQ
ARIAHRIQELENLPGSLAGDLRTKATIELKALRLLNFQRQLRQEVVVCMRRDTALETALNAKAYKRSKRQSLREA
RITEKLEKQQKIEQERKRRQKHQEYLNSILQHAKDFKEYHRSVTGKIQKLTKAVATYHANTEREQKKENERIEKE
RMRRLMAEDEEGYRKLIDQKKDKRLAYLLQQTDEYVANLTELVRQHKAAQVAKEKKKKKKKKAENAEGQTPAIG
PDGEPLDETSQMSDLPVKVIHVESGKILTGTDAPKAGQLEAWLEMNPGYEVAPRSDSEESGSEEEEEEEEEEQPQ
AAQPPTLPVEEKKKIPDPDSDDVSEVDARHIIENAKQDVDDEYGVSQALARGLQSYYAVAHAVTERVDKQSALMV
NGVLKQYQIKGLEWLVSLYNNNLNGILADEMGLGKTIQTIALITYLMEHKRINGPFLIIVPLSTLSNWAYEFDKW
APSVVKVSYKGSPAARRAFVPQLRSGKFNVLLTTYEYIIKDKHILAKIRWKYMIVDEGHRMKNHHCKLTQVLNTH
YVAPRRLLLTGTPLQNKLPELWALLNFLLPTIFKSCSTFEQWFNAPFAMTGEKVDLNEEETILIIRRLHKVLRPF
LLRRLKKEVEAQLPEKVEYVIKCDMSALQRVLYRHMQAKGVLLTDGSEKDKKGKGGTKTLMNTIMQLRKICNHPY
MFQHIEESFSEHLGFTGGIVQGLDLYRASGKFELLDRILPKLRATNHKVLLFCQMTSLMTIMEDYFAYRGFKYLR
LDGTTKAEDRGMLLKTFNEPGSEYFIFLLSTRAGGLGLNLQSADTVIIFDSDWNPHQDLQAQDRAHRIGQQNEVR
VLRLCTVNSVEEKILAAAKYKLNVDQKVIQAGMFDQKSSSHERRAFLQAILEHEEQDESRHCSTGSGSASFAHTA
PPPAGVNPDLEEPPLKEEDEVPDDETVNQMIARHEEEFDLFMRMDLDRRREEARNPKRKPRLMEEDELPSWIIKD
DAEVERLTCEEEEEKMFGRGSRHRKEVDYSDSLTEKQWLKAIEEGTLEEIEEEVRQKKSSRKRKRDSDAGSSTPT
TSTRSRDKDDESKKQKKRGRPPAEKLSPNPPNLTKKMKKIVDAVIKYKDSSSGRQLSEVFIQLPSRKELPEYYEL
IRKPVDFKKIKERIRNHKYRSLNDLEKDVMLLCQNAQTFNLEGSLIYEDSIVLQSVFTSVRQKIEKEDDSEGEES
EEEEEGEEEGSESESRSVKVKIKLGRKEKAQDRLKGGRRRPSRGSRAKPVVSDDDSEEEQEEDRSGSGSEED

FIGURE 5256A

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GCCCCGAGTGCAATCGCGGGAAGCCAGGGTTTCCAGCTAGGACACAGCAGGTCGTGATCCGGGTCGGGACACTGC
CTGGCAGAGGCTGCGAGCATGGGGCCCTGGGGCTGGAAATTGCGCTGGACCGTCGCCTTGCTCCTCGCCGCGGCG
GGGACTGCAGTGGGCGACAGATGCGAAAGAAACGAGTTCCAGTGCCAAGACGGGAAATGCATCTCCTACAAGTGG
GTCTGCGATGGCAGCGCTGAGTGCCAGGATGGCTCTGATGAGTCCCAGGAGACGTGCTTGTCTGTCACCTGCAAA
TCCGGGGACTTCAGCTGTGGGGGCCGTGTCAACCGCTGCATTCCTCAGTTCTGGAGGTGCGATGGCCAAGTGGAC
TGCGACAACGGCTCAGACGAGCAAGGCTGTCCCCCCAAGACGTGCTCCCAGGACGAGTTTCGCTGCCACGATGGG
AAGTGCATCTCTCGGCAGTTCGTCTGTGACTCAGACCGGGACTGCTTGGACGGCTCAGACGAGGCCTCCTGCCCG
GTGCTCACCTGTGGTCCCGCCAGCTTCCAGTGCAACAGCTCCACCTGCATCCCCCAGCTGTGGGCCTGCGACAAC
GACCCCGACTGCGAAGATGGCTCGGATGAGTGGCCGCAGCGCTGTAGGGGTCTTTACGTGTTCCAAGGGGACAGT
AGCCCCTGCTCGGCCTTCGAGTTCCACTGCCTAAGTGGCGAGTGCATCCACTCCAGCTGGCGCTGTGATGGTGGC
CCCGACTGCAAGGACAAATCTGACGAGGAAAACTGCGCTGTGGCCACCTGTCGCCCTGACGAATTCCAGTGCTCT
GATGGAAACTGCATCCATGGCAGCCGGCAGTGTGACCGGGAATATGACTGCAAGGACATGAGCGATGAAGTTGGC
TGCGTTAATGTGACACTCTGCGAGGGACCCAACAAGTTCAAGTGTCACAGCGGCGAATGCATCACCCTGGACAAA
GTCTGCAACATGGCTAGAGACTGCCGGGACTGGTCAGATGAACCCATCAAAGAGTGCGGGACCAACGAATGCTTG
GACAACAACGGCGGCTGTTCCCACGTCTGCAATGACCTTAAGATCGGCTACGAGTGCCTGTGCCCCGACGGCTTC
CAGCTGGTGGCCCAGCGAAGATGCGAAGTATCGATGAGTGTCAGGATCCCGACACCTGCAGCCAGCTCTGCGTG
AACCTGGAGGGTGGCTACAAGTGCCAGTGTGAGGAAGGCTTCCAGCTGGACCCCCACACGAAGGCCTGCAAGGCT
GTGGGCTCCATCGCCTACCTCTTCTTCACCAACCGGCACGAGGTCAGGAAGATGACGCTGGACCGGAGCGAGTAC
ACCAGCCTCATCCCCAACCTGAGGAACGTGGTCGCTCTGGACACGGAGGTGGCCAGCAATAGAATCTACTGGTCT
GACCTGTCCCAGAGAATGATCTGCAGCACCCAGCTTGACAGAGCCCACGGCGTCTCTTCCTATGACACCGTCATC
AGCAGAGACATCCAGGCCCCCGACGGGCTGGCTGTGGACTGGATCCACAGCAACATCTACTGGACCGACTCTGTC
CTGGGCACTGTCTCTGTTGCGGATACCAAGGGCGTGAAGAGGAAAACGTTATTCAGGGAGAACGGCTCCAAGCCA
AGGGCCATCGTGGTGGATCCTGTTCATGGCTTCATGTACTGGACTGACTGGGGAACTCCCGCCAAGATCAAGAAA
GGGGGGCCTGAATGGTGTGGACATCTACTCGCTGGTGACTGAAAACATTCAGTGGCCCAATGGCATCACCCTAGAT
CTCCTCAGTGGCCGCCTCTACTGGGTTGACTCCAAACTTCACTCCATCTCAAGCATCGATGTCAACGGGGGCAAC
CGGAAGACCATCTTGGAGGATGAAAAGAGGCTGGCCCACCCCTTCTCCTTGGCCGTCTTTGAGGACAAAGTATTT
TGGACAGATATCATCAACGAAGCCATTTTCAGTGCCAACCGCCTCACAGGTTCCGATGTCAACTTGTTGGCTGAA
AACCTACTGTCCCCAGAGGATATGGTTCTCTTCCACAACCTCACCCAGCCAAGAGGAGTGAACTGGTGTGAGAGG
ACCACCCTGAGCAATGGCGGCTGCCAGTATCTGTGCCTCCCTGCCCCGCAGATCAACCCCCACTCGCCCAAGTTT
ACCTGCGCCTGCCCGGACGGCATGCTGCTGGCCAGGGACATGAGGAGCTGCCTCACAGAGGCTGAGGCTGCAGTG
GCCACCCAGGAGACATCCACCGTCAGGCTAAAGGTCAGCTCCACAGCCGTAAGGACACAGCACACAACCACCCGA
CCTGTTCCCGACACCTCCCGGCTGCCTGGGGCCACCCCTGGGCTCACCACGGTGGAGATAGTGACAATGTCTCAC
CAAGCTCTGGGCGACGTTGCTGGCAGAGGAAATGAGAAGAAGCCCAGTAGCGTGAGGGCTCTGTCCATTGTCCTC
CCCATCGTGCTCCTCGTCTTCCTTTGCCTGGGGGTCTTCCTTCTATGGAAGAACTGGCGGCTTAAGAACATCAAC
AGCATCAACTTTGACAACCCCGTCTATCAGAAGACCACAGAGGATGAGGTCCACATTTGCCACAACCAGGACGGC
TACAGCTACCCCTCGAGACAGATGGTCAGTCTGGAGGATGACGTGGCGTGAACATCTGCCTGGAGTCCCGTCCCT
GCCCAGAACCCTTCCTGAGACCTCGCCGGCCTTGTTTTATTCAAAGACAGAGAAGACCAAAGCATTGCCTGCCAG
AGCTTTGTTTTATATATTTATTCATCTGGGAGGCAGAACAGGCTTCGGACAGTGCCCATGCAATGGCTTGGGTTG
GGATTTTGGTTTCTTCCTTTCCTCGTGAAGGATAAGAGAAACAGGCCCGGGGGGGACCAGGATGACACCTCCATTT
CTCTCCAGGAAGTTTTGAGTTTCTCTCCACCGTGACACAATCCTCAAACATGGAAGATGAAAGGGGAGGGGATGT
CAGGCCCAGAGAAGCAAGTGGCTTTCAACACACAACAGCAGATGGCACCAACGGGACCCCCTGGCCCTGCCTCAT
CCACCAATCTCTAAGCCAAACCCCTAAACTCAGGAGTCAACGTGTTTACCTCTTCTATGCAAGCCTTGCTAGACA
GCCAGGTTAGCCTTTGCCCTGTCACCCCCGAATCATGACCCACCCAGTGTCTTTCGAGGTGGGTTTGTACCTTCC
TTAAGCCAGGAAAGGGATTCATGGCGTCGGAAATGATCTGGCTGAATCCGTGGTGGCACCGAGACCAAACTCATT
CACCAAATGATGCCACTTCCCAGAGGCAGAGCCTGAGTCACTGGTCACCCTTAATATTTATTAAGTGCCTGAGAC
ACCCGGTTACCTTGGCCGTGAGGACACGTGGCCTGCACCCAGGTGTGGCTGTCAGGACACCAGCCTGGTGCCCAT
CCTCCCGACCCCTACCCACTTCCATTCCCGTGGTCTCCTTGCACTTTCTCAGTTCAGAGTTGTACACTGTGTACA
TTTGGCATTTGTGTTATTATTTTGCACTGTTTTCTGTCGTGTGTGTTGGGATGGGATCCCAGGCCAGGGAAAGCC
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5705/6881
FIGURE 5256B

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CGTGTCAATGAATGCCGGGGACAGAGAGGGGCAGGTTGACCGGGACTTCAAAGCCGTGATCGTGAATATCGAGAA
CTGCCATTGTCGTCTTTATGTCCGCCCACCTAGTGCTTCCACTTCTATGCAAATGCCTCCAAGCCATTCACTTCC
CCAATCTTGTCGTTGATGGGTATGTGTTTAAAACATGCACGGTGAGGCCGGGCGCAGTGGCTCACGCCTGTAATC
CCAGCACTTTGGGAGGCCGAGGCGGGTGGATCATGAGGTCAGGAGATCGAGACCATCCTGGCTAACACGTGAAAC
CCCGTCTCTACTAAAAATACAAAAAATTAGCCGGGCGTGGTGGCGGGCACCTGTAGTCCCAGCTACTCGGGAGGC
TGAGGCAGGAGAATGGTGTGAACCCGGGAAGCGGAGCTTGCAGTGAGCCGAGATTGCGCCACTGCAGTCCGCAGT
CTGGCCTGGGCGACAGAGCGAGACTCCGTCTCAAAAAAAAAAAACAAAAAAAAACCATGCATGGTGCATCAGCAG
CCCATGGCCTCTGGCCAGGCATGGCGAGGCTGAGGTGGGAGGATGGTTTGAGCTCAGGCATTTGAGGCTGTCGTG
AGCTATGATTATGCCACTGCTTTCCAGCCTGGGCAACATAGTAAGACCCCATCTCTTAAAAAATGAATTTGGCCA
GACACAGGTGCCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGCTGGATCACTTGAGTTCAGGAGTTGGAG
ACCAGGCCTGAGCAACAAAGCGAGATCCCATCTCTACAAAAACCAAAAAGTTAAAAATCAGCTGGGTACGGTGGC
ACGTGCCTGTGATCCCAGCTACTTGGGAGGCTGAGGCAGGAGGATCGCCTGAGCCCAGGAGGTGGAGGTTGCAGT
GAGCCATGATCGAGCCACTGCACTCCAGCCTGGGCAACAGATGAAGACCCTATTTCAGAAATACAACTATAAAAA
AATAAATAAATCCTCCAGTCTGGATCGTTTGACGGGACTTCAGGTTCTTTCTGAAATCGCCGTGTTACTGTTGCA
CTGATGTCCGGAGAGACAGTGACAGCCTCCGTCAGACTCCCGCGTGAAGATGTCACAAGGGATTGGCAATTGTCC
CCAGGGACAAAACACTGTGTCCCCCCCAGTGCAGGGAACCGTGATAAGCCTTTCTGGTTTCGGAGCACGTAAATG
CGTCCCTGTACAGATAGTGGGGATTTTTTGTTATGTTTGCACTTTGTATATTGGTTGAAACTGTTATCACTTATA
TATATATATACACACATATATATAAAATCTATTTATTTTTGCAAACCCTGGTTGCTGTATTTGTTCAGTGACT
ATTCTCGGGGCCCTGTGTAGGGGGTTATTGCCTCTGAAATGCCTCTTCTTTATGTACAAAGATTATTTGCACGAA
CTGGACTGTGTGCAACGCTTTTTGGGAGAATGATGTCCCCGTTGTATGTATGAGTGGCTTCTGGGAGATGGGTGT
CACTTTTTAAACCACTGTATAGAAGGTTTTTGTAGCCTGAATGTCTTACTGTGATCAATTAAATTTCTTAAATG
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5706/6881
FIGURE 5257

AGTCTGCGCGGCGCGGCCAGGCCCGGCCGACCGCGTCTCGGTCTTCGCGTCTGCCAGCCTGGCTGGCAGTCCGTC
TGTCCATCCCGCCGCGCCGGGGCAGTCTAGGCGGAGCGGGGGCTCAGGCGGCGGCGGCCTCGACGCGAGTGAGTG
TCGTGGTTGGGGTGCTGGACCCAGAGTGCCTACCCTCGCCTGCCTGGGCCTCAGTTTCCACATCTGCACAATGGG
GGTGACCATCCCTGCCCTGCTGGCTGCCAGGAGCGGCTGTGAGTCTTCAGGCGTGGATGCAGCCTGGGGGAAGCC
ATAGGGCGCTTTCACAGGCCTGGCCTTCACCATGGCGGGAGGGAGACCGCATCTGAAGAGGAGTTTCTCCATCAT
CCCCTGCTTTGTCTTCGTGGAGTCGGTGCTGCTGGGCATTGTGATCCTGCTTGCTTACCGCCTGGAGTTCACGGA
CACCTTCCCTGTGCACACCCAGGGATTCTTCTGCTATGACAGTACCTACGCCAAGCCCTACCCAGGGCCTGAGGC
TGCCAGCCGAGTGCCTCCTGCTCTTGTCTACGCACTGGTCACTGCCGGGCCCACCCTCACGATCCTGCTGGGAGA
GCTGGCGCGTGCCTTTTTCCCTGCACCACCTTCAGCCGTCCCAGTCATCGGGGAGAGCACCATCGTGTCTGGGGC
CTGCTGCCGCTTCAGCCCCCCAGTGCGGAGGCTGGTCCGCTTCCTGGGGGTCTACTCCTTCGGCCTCTTCACCAC
GACCATCTTCGCCAACGCGGGGCAGGTGGTGACCGGCAATCCCACGCCACACTTCCTGTCCGTGTGCCGCCCCAA
CTACACGGCCCTGGGCTGCCTGCCACCTTCTCCGGATCGGCCAGGTCCCGACCGCTTTGTCACTGACCAGGGTGC
CTGCGCTGGCAGTCCCAGCCTCGTGGCCGCCGCGCGCCGCGCCTTCCCCTGCAAGGATGCGGCCCTCTGCGCCTA
CGCGGTCACCTACACAGCGATGTACGTGACTCTCGTGTTCCGCGTGAAGGGCTCCCGCCTGGTCAAACCCTCGCT
CTGCCTGGCCTTGCTGTGCCCGGCCTTCCTGGTGGGCGTGGTCCGCGTGGCCGAGTACCGAAACCACTGGTCGGA
CGTGCTGGCTGGCTTCCTGACAGGGGCGGCCATCGCCACCTTTTTGGTCACCTGCGTTGTGCATAACTTTCAGAG
CCGGCCACCCTCTGGCCGAAGGCTCTCTCCCTGGGAGGACCTGGGCCAAGCCCCCACCATGGATAGCCCCCTCGA
AAAGAACCCGAGGTCTGCAGGCCGCATTCGACACCGGCACGGCTCACCCCATCCAAGTCGCAGAACTGCGCCCGC
CGTGGCCACCTGATCCCCAGCTGTGTCTCCTCCAGGGCCCCAGCCATGTGTTCGTCGCCCCGTGTGCCCCGTCCT
CGATTGAGGTCTGAGCCGACGCCCTTGCCCCTGCCCCTACCCCTGCCAGCGCCCACCCCCAGCCAGGGCCCCTCG
CCTTCCTCCCCTGGACCTGGGGGGCCAGGCGGGGGTGGTGGACGTGGCCGGAAGCTGCTGCTGCCCACGCCCCTG
CTGCGGGACCTGTACACCCTGAGTGGACTCTATCCCTCCCCCTTCCACCGGGACAACTTCAGCCCTTACCTGTTT
GCCAGCCGTGACCACCTGCTGTGAGGCCCGACCACCCACCCAGAATCTGCCCAGTCCCCACTTCTTCCCTGCCAC
GCGTGTGTGTGCGTGTGCCACGTGAGTGCCAAAGTCCCCTGCCCCCCAAGCCAGCCAGACCCAGACATTAGAAGA
TGGCTAGAAGGACATTTAGGAGACATCTGCCTCTCTGGCCCTCTGAGATATCCCGATGGGCACAAATGGAAGGTG
CGCACTTGCCCCTACTATTGCCCTTTTAAGGGCCAAAGCTTGACCCCATTGGCCATTGCCTGGCTAATGAGAACC
CCTGGTTCTCAGAATTTTAACCAAAAGGAGTTGGCTCCAACCAATGGGAGCCTTCCCCTCACTTCTTAGAATCCT
CCTGCAAGAGGGCAACTCCAGCCAGTGTTCAGCGACTGAACAGCCAATAGGAGCCCTTGGTTTCCAGAATTTCTA
GAGTGGGTGGGCATGATTCCAGTCAATGGGGGACCGCCCGTGTCTAAGCATGTGCAAAGGAGAGGAGGGAGATGA
GGTCATTGTTTGTCATTGAGTCTTCTCTCAGAATCAGCGAGCCCAGCTGTAGGGTGGGGGGCAGGCTCCCCCATG
GCAGGGTCCTTGGGGTACCCCTTTTCCTCTCAGCCCCTCCCTGTGTGCGGCCTCTCCACCTCTCACCCACTCTCT
CCTAATCCCCTACTTAAGTAGGGCTTGCCCCACTTCAGAGGTTTTGGGGTTCAGGGTGCTGTGTCTCCCCTTGCC
TGTGCCCAGGTCATCCCAAACCCTTCTGTTATTTATTAGGGCTGTGGGAAGGGTTTTTCTTCTTTTTCTTGGAAC
CTGCCCCTGTTCTTCACACTGCCCCCCATGCCTCAGCCTCATACAGATGTGCCATCATGGGGGGCATGGGTGGAG
CAGAGGGGCTCCCTCACCCCGGGCAGGCAAAGGCAGTGGGTAGAGGAGGCACTGCCCCCCTTTCCTGCCCCCTCC
TCATCTTTAATAAAGACCTGGCTTCTCATCTTTAATAAAGACCTGTTTGTAACAG

5707/6881
FIGURE 5258

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ACTTAGAGGCGCCTGGTCGGGAAGGGCCTGGTCAGCTGCGTCCGGCGGAGGCAGCTGCTGACCCAGCTGTGGACT
GTGCCGGGGGCGGGGGACGGAGGGGCAGGAGCCCTGGGCTCCCCGTGGCGGGGGCTGTATCATGGACCACCTCGG
GGCGTCCCTCTGGCCCCAGGTCGGCTCCCTTTGTCTCCTGCTCGCTGGGGCCGCCTGGGCGCCCCCGCCTAACCT
CCCCGGACCCCAAGTTCGAGAGCAAAGCGGCCTTGCTGGCGGCCCGGGGGCCCGAAGAGCTTCTGTGCTTCACCGA
GCGGTTGGAGGACTTGGTGTGTTTCTGGGAGGAAGCGGCGAGCGCTGGGGTGGGCCCGGGCAACTACAGCTTCTC
CTACCAGCTCGAGGATGAGCCATGGAAGCTGTGTCGCCTGCACCAGGCTCCCACGGCTCGTGGTGCGGTGCGCTT
CTGGTGTTCGCTGCCTACAGCCGACACGTCGAGCTTCGTGCCCCTAGAGTTGCGCGTCACAGCAGCCTCCGGCGC
TCCGCGATATCACCGTGTCATCCACATCAATGAAGTAGTGCTCCTAGACGCCCCCGTGGGGCTGGTGGCGCGGTT
GGCTGACGAGAGCGGCCACGTAGTGTTGCGCTGGCTCCCGCCGCCTGAGACACCCATGACGTCTCACATCCGCTA
CGAGGTGGACGTCTCGGCCGGCAACGGCGCAGGGAGCGTACAGAGGGTGGAGATCCTGGAGGGCCGCACCGAGTG
TGTGCTGAGCAACCTGCGGGGCCGGACGCGCTACACCTTCGCCGTCCGCGCGCGTATGGCTGAGCCGAGCTTCGG
CGGCTTCTGGAGCGCCTGGTCGGAGCCTGTGTCGCTGCTGACGCCTAGCGACCTGGACCCCCTCATCCTGACGCT
CTCCCTCATCCTCGTGGTCATCCTGGTGCTGCTGACCGTGCTCGCGCTGCTCTCCCACCGCCGGGCTCTGAAGCA
GAAGATCTGGCCTGGCATCCCGAGCCCAGAGAGCGAGTTTGAAGGCCTCTTCACCACCCACAAGGGTAACTTCCA
GCTGTGGCTGTACCAGAATGATGGCTGCCTGTGGTGGAGCCCCTGCACCCCCTTCACGGAGGACCCACCTGCTTC
CCTGGAAGTCCTCTCAGAGCGCTGCTGGGGGGACGATGCAGGCAGTGGAGCCGGGGACAGATGATGAGGGCCCCCT
GCTGGAGCCAGTGGGCAGTGAGCATGCCCAGGATACCTATCTGGTGCTGGACAAATGGTTGCTGCCCCGGAACCC
GCCCAGTGAGGACCTCCCAGGGCCTGGTGGCAGTGTGGACATAGTGGCCATGGATGAAGGCTCAGAAGCATCCTC
CTGCTCATCTGCTTTGGCCTCGAAGCCCAGCCCAGAGGGAGCCTCTGCTGCCAGCTTTGAGTACACTATCCTGGA
CCCCAGCTCCCAGCTCTTGCGTCCATGGACACTGTGCCCTGAGCTGCCCCCTACCCCACCCCACCTAAAGTACCT
GTACCTTGTGGTATCTGACTCTGGCATCTCAACTGACTACAGCTCAGGGGACTCCCAGGGAGCCCAAGGGGGCTT
ATCCGATGGCCCCTACTCCAACCCTTATGAGAACAGCCTTATCCCAGCCGCTGAGCCTCTGCCCCCCAGCTATGT
GGCTTGCTCTTAGGACACCAGGCTGCAGATGATCAGGGATCCAATATGACTCAGAGAACCAGTGCAGACTCAAGA
CTTATGGAACAGGGATGGCGAGGCCTCTCTCAGGAGCAGGGGCATTGCTGATTTTGTCTGCCCAATCCATCCTGC
TCAGGAAACCACAACCTTGCAGTATTTTTAAATATGTATAGTTTTTTTG
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5708/6881
FIGURE 5259

MDHLGASLWPQVGSLCLLLAGAAWAPPPNLPDPKFESKAALLAARGPEELLCFTERLEDLVCFWEEAASAGVGPG
NYSFSYQLEDEPWKLCRLHQAPTARGAVRFWCSLPTADTSSFVPLELRVTAASGAPRYHRVIHINEVVLLDAPVG
LVARLADESGHVVLRWLPPPETPMTSHIRYEVDVSAGNGAGSVQRVEILEGRTECVLSNLRGRTRYTFAVRARMA
EPSFGGFWSAWSEPVSLLTPSDLDPLILTLSLILVVILVLLTVLALLSHRRALKQKIWPGIPSPESEFEGLFTTH
KGNFQLWLYQNDGCLWWSPCTPFTEDPPASLEVLSERCWGTMQAVEPGTDDEGPLLEPVGSEHAQDTYLVLDKWL
LPRNPPSEDLPGPGGSVDIVAMDEGSEASSCSSALASKPSPEGASAASFEYTILDPSSQLLRPWTLCPELPPTPP
HLKYLYLVVSDSGISTDYSSGDSQGAQGGLSDGPYSNPYENSLIPAAEPLPPSYVACS

FIGURE 5260

ATTTTTCAGAGCCCTAGGAATCCGAGCTGACGGATCCCTGACAGGGGCGACTGACTCCTAGTTATCCCCCTAACC
CCTAGGGGCCTTCAGCCCCAACCCCATCATGACATCTCCTCTGTGCAGGGCGGCCTCCGCCAACGCCCTGCCTCC
TCAGGACCAGGCTTCGACGCCCTCTTCCAGGGTCAAGGGCAGGGAGGCTTCGGGCAAACCCAGCCACCTCCGAGG
CAAGGGCACAGCCCAGGCGTGGACCCCAGGCCGTTCCAAGGGAGGATCCTTCCACAGAGGTGCAGGGAAGCCCTC
TGTGCACTCTCAGGTGGCTGAGTTACATAAAAAGATACAACTGTTAGAGGGTGACCGGAAGGCTTTTTTTGAGAG
CTCTCAGTGGAACATCAAGAAGAACCAGGAGACCATCAGTCAGCTCCGCAAGGAGACTAAGGCACTGGAACTAAA
GCTGCTGGACCTGCTCAAGGGAGATGAGAAAGTGGTCCAGGCAGTGATTCGCGAATGGAAGTGGGAGAAGCCATA
CCTGAAGAACAGGACAGGACAGGCCCTGGAGCACCTAGACCACCGGCTGAGGGAGAAGGTGAAGCAGCAGAACGC
CCTGCGGCACCAGGTGGTGTTGCGGCAGAGGCGGCTGGAGGAGCTCCAGCTGCAGCACAGCCTGCGCCTTCTGGA
GATGGCGGAGGCGCAAAACAGACACACGGAGGTGGCCAAGACCATGCGGAACCTGGAGAACCGCCTGGAGAAGGC
CCAGATGAAGGCGCAGGAGGCCGAGCACATTACCAGCGTGTACCTGCAGCTCAAGGCCTATCTAATGGACGAGAG
CCTCAACTTGGAGAACCGGCTGGACTCCATGGAGGCTGAGGTGGTGAGGACCAAACATGAGCTGGAGGCACTGCA
CGTGGTGAACCAAGAGGCCCTCAATGCCCGGGACATTGCCAAGAACCAGCTGCAGTACCTAGAGGAGACCTTGGT
TCGAGAGCGCAAGAAGCGGGAACGCTACATAAGTGAGTGCAAGAAGCGCGCCGAGGAGAAGAAACTGGAGAACGA
GCGCATGGAGCGCAAGACCCACCGCGAGCACCTGCTGCTACAGTCCGACGACACCATCCAGGACAGCCTGCATGC
CAAGGAGGAGGAGCTGCGGCAGCGCTGGAGCATGTACCAGATGGAGGTGATCTTTGGCAAGGTCAAGGACGCCAC
TGGCACTGACGAGACGCACTCGTTGGTGCGGCGGTTCCTGGCCCAGGGCGACACCTTCGCGCAGTTGGAGACGCT
CAAGAGCGAGAACGAGCAGACGTTGGTGAGGCTGAAGCAGGAGAAGCAACAACTGCAGCGGGAGCTGGAAGACCT
CAAGTACTCGGGGGGAGGCCACGCTGGTGAGCCAGCAGAAACTGCAAGCCGAGGCGCAGGAGCGTCTCAAGAAGGA
GGAGCGGCGGCACGCCGAGGCCAAGGACCAGCTGGAGCGCGCCTTGCGGGCGATGCAAGTGGCCAAGGACAGCCT
GGAGCACCTGGCCAGCAAGCTGATCCACATCACTGTGGAGGACGGCCGCTTCGCGGGGAAAGGAGCTGGATCCCCA
GGCAGATAACTATGTGCCAAACCTGCTGGGCCTCGTGGAGGAAAAGCTGCTGAAACTGCAGGCGCAGCTCCAGGG
CCACGACGTGCAGGAGATGCTGTGCCACATCGCTAACCGCGAGTTCCTCGCCAGCTTAGAGGGAAGGCTGCCCGA
ATACAACACCCGCATCGCCCTGCCCCTTGCCACTTCCAAGGACAAGTTTTTTGACGAAGAGAGTGAGGAGGAGGA
CAACGAGGTAGTGACCCGCGCATCACTCAAGATCCGTTCCCAGAAATTAATCGAAAGTCACAAGAAGCACCGTCG
CTCTCGGAGGTCCTAGACTCGTCCTGACACCCACCAGGCGGCCCCCTTCGGAGCCCCCGATCCCTCCGGGTCTAG
CGCAGGCCCCACGGGGCCCCTTCAGGGGCTGAACGCGGCCCGGACCGGGAACGGAGGCGGCCAGCGGCGCCCGGA
GGGGAGGAAGGGGCCGGGCCAGACGTTCCCACAGTAAATCTCCCCAGCTGGGTCCGCCCCGGCCTCAGAGTTGCG
CAATAAATGTTACCGACCATG

5710/6881
FIGURE 5261

GCTGCGCCGCCATTAAGAGCTAGCCCTCAGAACTATCCTCTCTAAGGTTTCACAGTCCTGCCCAAGATGGCCGTC
TCGGCTCTGGCACCGCCCCCACTCCTGCCTCTCCCAACATGGCGACCCTGAGTCTCCGTTCCCGGTGCGGAACGT
ACGACCGGAAGTGACGGGGTCCAGAAATTTCCGCTTTCTTTCTGCAGCAGGAACCGCGGCTGCTGGACAAGAGGG
GTGCGGTGGATACTGACCTTTGCTCCGGCCTCGTCGTGAAGACACAGCGCATCTCCCCGCTGTAGGCTTCCTCCC
ACAGAACCCGTTTCGGGCCTCAGAGCGTCTGGTGAGATGCTGTTGCCGCTGCTGCTGCTGCTACCCATGTGCTGG
GCCGTGGAGGTCAAGAGGCCCCGGGGCGTCTCCCTCACCAATCATCACTTCTACGATGAGTCCAAGCCTTTCACC
TGCCTGGACGGTTCGGCCACCATCCCATTTGATCAGGTCAACGATGACTATTGCGACTGCAAAGATGGCTCTGAC
GAGCCAGGCACGGCTGCCTGTCCTAATGGCAGCTTCCACTGCACCAACACTGGCTATAAGCCCCTGTATATCCCC
TCCAACCGGGTCAACGATGGTGTTTGTGACTGCTGCGATGGAACAGACGAGTACAACAGCGGCGTCATCTGTGAG
AACACCTCAGAGAGAAGGGCCGTAAGGAGAGAGAGTCCCTGCAGCAGATGGCCGAGGTCACCCGCGAAGGGTTCC
GTCTGAAGAAGATCCTTATTGAGGACTGGAAGAAGGCACGGGAGGAGAAGCAGAAAAAGCTCATTGAGCTACAGG
CTGGGAAGAAGTCTCTGGAAGACCAGGTGGAGATGCTGCGGACAGTGAAGGAGGAAGCTGAGAAGCCAGAGAGAG
AGGCCAAAGAGCAGCACCAGAAGCTGTGGGAAGAGCAGCTGGCTGCTGCCAAGGCCCAACAGGAGCAGGAGCTGG
CGGCTGATGCCTTCAAGGAGCTGGATGATGACATGGACGGGACGGTCTCGGTGACTGAGCTGCAGACTCACCCGG
AGCTGGACACAGATGGGGATGGGGCGTTGTCAGAAGCGGAAGCTCAGGCCCTCCTCAGTGGGGACACACAGACAG
ACGCCACCTCTTTCTACGACCGCGTCTGGGCCGCCATCAGGGACAAGTACCGGTCCGAGGCACTGCCCACCGACC
TTCCAGCACCTTCTGCCCCTGACTTGACGGAGCCCAAGGAGGAGCAGCCGCCAGTGCCCTCGTCGCCCACAGAGG
AGGAGGAGGAGGAGGAGGAGGAGGAAGAAGAGGCTGAAGAAGAGGAGGAGGAGGAGGATTCCGAGGTGCAGG
GGGAGCAGCCCAAGGAGGCCCCACCGCCACTGTCACCCCCGCAGCCGGCCAGCCCTGCTGAGGAAGACAAAATGC
CGCCCTACGACGAGCAGACGCAGGCCTTCATCGATGCTGCCCAGGAGGCCCGCAACAAGTTCGAGGAGGCCGAGC
GGTCGCTGAAGGACATGGAGGAGTCCATCAGGAACCTGGAGCAAGAGATTTCTTTTGACTTTGGCCCCAACGGGG
AGTTTGCTTACCTGTACAGCCAGTGCTACGAGCTCACCACCAACGAATACGTCTACCGCCTCTGCCCCTTCAAGC
TTGTCTCGCAGAAACCCAAACTCGGGGGCTCTCCCACCAGCCTTGGCACCTGGGGCTCATGGATTGGCCCCGACC
ACGACAAGTTCAGTGCCATGAAGTATGAGCAAGGCACGGGCTGCTGGCAGGGCCCCAACCGCTCCACCACCGTGC
GCCTCCTGTGCGGGAAAGAGACCATGGTGACCAGCACCACAGAGCCCAGTCGCTGCGAGTACCTCATGGAGCTGA
TGACGCCAGCCGCCTGCCCGGAGCCACCGCCTGAAGCACCCACCGAAGACGACCATGACGAGCTCTAGCTGGATG
GGCGCAGAGGTGGGCGGGGAGGTGGAGTCTCGTCGGCCTGCCCCAGCAAGGGGAGGCGGCGGGCCCTGAGGAAGA
TGGACCCACATGGCCACTCTATCAACCTGTGTCCCCATGTTCCCTGCTTTTTTGTTTTGTTTTTTTGAGGTGGAG
TCTCACTCTTTGGCCCAGGCTGGAGTGCAGTGATGCGACCTCAGCTGACTGCAACCTCTACCTCCCGGGTTCAAA
CAATTGTCTTGTCTCAGCCTCCCAAGTAGCTGGGATTACAGGTGTGCACCACCATGCCTGGCTAATTTTTAGTAG
AGATGGGGTTTCACCATGTTGGCCTGGATGGTCTCGAACTCCTGACCTCAGATGATCCACCTGCCTTGGCCTCCC
AAAGTGCTGGGATTACAGGCATGAGCCACCACACCCGGCCATCTCCTGCCTTTTTTTTTTGGATGGAGTTTCAC
TCTTGTTGCCGAGATCATGCTACTGCACTCTCCAGCCTGGGCTACAGAGTGAGACTCTCAAAAAAAAAAAAATAAT
AATAATAAGAGAAAATAGACAAGGTCTCCAGGCTGGTCAACTCCTGGCCTCAAATGATCCTCCCACCTCAGCCTC
CCAAGCAGCCGGGACTACAGGCAAACATCACCATGTCCAGCTGTCCCCAGCTTTCTAATCTGGTCTTTCTCTTGC
CCCAGAACCTCAAGAAGGCATGAAGCCAGCCCCTGCAGTGCCGTCCACCCGCCCCTCTGGGCCTGCCTGTGGCTC
TGTTGCCCTCCTCTGTGGCGGCAGGACCTTTGTGGGGCTTCGTGCCCTGCTCTGGGGCCCAGGCGGGGCTGGTCC
ACATTCCCAGGCCCCAACAGCCTTCAAAGATGGGTAAAGGAGCTTGCCCTCCCTGGGCCCCCCACCTTGGTGACT
CGCCCCACCACCCCCAGCCCTGTCCCTGCCACCCCTCCTAGTGGGGACTAGTGAATGACTTGACCTGTGACCTCA
ATACAATAAATGTGATCCCCCACCC

FIGURE 5262

GGCACGAGGGGCTCATCCACCTGCAGAC**ATG**GGGCGCAGAAAGTCAAAACGAAAGCCGCCTCCCAAGAAGAAGAT
GACAGGCACCCTCGAGACCCAGTTCACCTGCCCCTTCTGCAACCACGAGAAATCCTGTGATGTGAAAATGGACCG
TGCCCGCAACACCGGAGTCATCTCTTGTACCGTGTGCCTAGAGGAATTCCAGACGCCCATAACGTATCTGTCAGA
ACCCGTGGATGTGTACAGTGATTGGATAGACGCCTGCGAGGCGGCCAATCAG**TAG**CGACACAGAGGACCCGCCCC
CTGAGCAGCCCCGCGTACTGTGGATCCAGCTGTTCGGTTCTGGTCCAGAGACATTCCAGGGGTCCAGGGTGTGGG
TCCTGGGCTGTCACAGCCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTAGTGGGTGTGCGT
GTGGGTGTGGGTGTGAGTGAGTGTGGGTGTGTGTGGCTGCACGTGTCACTGGGGTGGCCGTGAGTGTGTGCTCAC
AGGTACGCGGTGGTGTCGGGTTCCTGGGCCTGAGGGGCCTGAACTGATCTCACTTGGCTCCGAAAGCCTTTGCTG
TGTTCCCTGCAGCCCCTGGCCCCCCAGCCTTGGGGCTCTGGCTCCCCCCGGCGGAATTGGGGGACTGTTTCCTGA
CATCCTGGACAAGGGAAGCCCACTAGAGGCTGGAACAGGACCTCTCCAGCCTCCTCACCAGCACCGTGCCCATCT
CAACTGGACTTCCCGCCCTCCTTCTCCACCTTCTAGTGCCCGTGGCCGGGGATTCAAAGCCGCCGTTCCCCAGGT
CCCTGGGCTGGGCCCTGACAGGGAGCCGCCCCCCTCCCCATGGTAACCAGGAAGCCCGTTTCATGTTCAGTTGCT
TTTGTAGAGGAAGCAAGGGCTGGGATGGGGACAGCTGTCAATCACAAGCCCTTAAATAAAGCAGCCAGCGCACAA
AAAAAAAAAAAAAAAA

5712/6881
FIGURE 5263

MGRRKSKRKPPPKKKMTGTLETQFTCPFCNHEKSCDVKMDRARNTGVISCTVCLEEFQTPITYLSEPVDVYSDWI
DACEAANQ

5713/6881
FIGURE 5264

TTTCTGCCCGTGGACACCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCTGCCGTC**ATG**TCTAAGTCAGAGT
CTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACTGATGAGAGCCTGA
GGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAGGG
GCTTTGGGTTTGTCACGTATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATG
GAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAACTGTGAAAA
AGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTTGAACAGTATGGAAAAA
TTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGACGACC
ATGACTCCGTGGATAAGACTGTCATTCAGAAATACCATACTGTGAATGGCCACAACTGTGAAGTTAGAAAAGCCC
TGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCCAAAGAGGTCGAAGTGGTTCTGGAAACTTTGGTGGTGGTC
GTGGAGGTGGTTTCGGTGGGAATGACAACTTCGGTCGTGGAGGAAACTTCAGTGGTCGTGGTGGCTTTGGTGGCA
GCCATGGTGGTGGTGGATATGGTGGCAGTGGGGATGGCTATAATGGATTTGGTAATGATGGAAGCAATTTTGGAG
GTGGTGGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATT
TTGGAGGCAGAAGCTCTGGCCCCTATGGCGGTGGAGGCCAATACTTTGCAAAACCACGAAACCAAGTGGCTATGG
CGGTTCCAGCAGCAGCAGTAGCTATGGCAGTGGCAGAAGATTTTAAT**TAG**GAAACAAAGCTTAGCAGGAGAGGAG
AGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAATAGATTTGTGAACTCAGCCAAGCACAGTGGTGGCAGGGCC
TAGCTGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAAACTCGAGGACTGTATTTGTG
ACTAATTGTATAACAGGTTATTTTAGTTTCTGTTCTGTGGAAAGTGTAAAGCATTCCAACAAAGGGTTTTAACGT
AGATTTCTTTTTGCACCCCATGCTGTTGATTGCTAAATGTAATAGTCTGATCGTGATGCTGAATAAATGTCTTTT
TTTT

5714/6881
FIGURE 5265

MSKSESPKEPEQLRKLFIGGLSFETTDESLRSHFEQWGTLTDCVVMRDPNTKRSRGFGFVTYATVEEVDAAMNAR
PHKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEEHHLRDYFEQYGKIEVIEIMTDRGSGKKRGFAF
VTFDDHDSVDKTVIQKYHTVNGHNCEVRKALSKQEMASASSSQRGRSGSGNFGGGRGGGFGGNDNFGRGGNFSGR
GGFGGSHGGGGYGGSGDGYNGFGNDGSNFGGGGSYNDFGNYNNQSSNFGPMKGGNFGGRSSGPYGGGGQYFAKPR
NQVAMAVPAAAVAMAVAEDFN

5715/6881
FIGURE 5266

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CTCTTTCCCTTCAGTGTGCCACTGAAGATCCTGGTGTCGCCATGGGCCGCCGCCCCGCCCGTTGTTACCGGTATT
GTAAGAACAAGCCGTACCCAAAGTCTCGCTTCTGCCGAGGTGTCCCTGATGCCAAGATTCGCATTTTTGACCTGG
GGCGGAAAAAGGCAAAAGTGGATGAGTTTCCGCTCTGTGGCCACATGGTGTCAGATGAATATGAGCAGCTGTCCT
CTGAAGCCCTGGAGGCTGCCCGAATTTGTGCCAATAAGTACATGGTAAAAAGTTGTGGCAAAGATGGCTTCCATA
TCCGGGTGCGGCTCCACCCCTTCCACGTCATCCGCATCAACAAGATGTCGTCCTGTGCTGGGGCTGACAGGCTCC
AAACAGGAATGCGAGGTGCCTTTGGAAAGCCCCAGGGCACTGTGGCCAGGGTTCACATTGGCCAAGTTATCATGT
CCATCCGCACCAAGCTGCAGAACAAGGAGCGTGTGATTGAGGCCCTGCGCAGGGCCAAGTTCAAGTTTCCTGGCC
GCCAGAAGATCCACATCTCAAAGAAGTGGGGCTTCACCAAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTG
CTCTGGACAAGTGGTGGGCCCTGCACTCATGAGGGCTTCCAATGTGCTGCCCCCCTCTTAATACTCACCAATAAA
TTCTACTT
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